Refrigerated Air Dryers

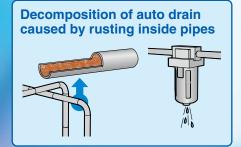
Protect Pneumatic Equipment from Moisture!

An air dryer removes the vapor from the moist compressed air delivered by the compressor, and prevents it from causing the pneumatic equipment to fail.

The IDF22E to 75E series is to be discontinued as of the end of May 2022. Click here for details. Substitute products Discontinued products IDF22E IDF60 IDF37E IDF60 or IDF70 IDF55E IDF80 IDF75E IDF80 or IDF90

△ Effects of moisture on equipment







Standard inlet air temperature type IDF \(\subseteq E/F/D \) Series

- Air flow capacity: Increased by up to 40% (SMC comparison)
- Power consumption: Reduced by up to 40% (SMC comparison)
- Improved corrosion resistance with the stainless steel heat exchanger*

Model	Rated inlet condition	Applicable air compressor [kW]	Port size
IDF1E		0.75	
IDF2E		1.5	Rc3/8
IDF3E		2.2	
IDF4E		3.7	Rc1/2
IDF6E	35°C	5.5	
IDF8E	0.7 MPa	7.5	Rc3/4
IDF11E		11	
IDF15E1		15	Rc1
IDF22E		22	R1
IDF37E	To bo d	iscontinued	R1 1/2
IDF55E	io be d	R2	
IDF75E	0.7 MPa	75	ΠZ



The air dryers (CE or UL compliant) conforming to the international standards are separately available.

- Large size series
- Tolerant of high temperature environment! Top of its class in the industry for the large air-cooled type Ambient temperature 45°C/Inlet air temperature 60°C (IDF100F to 150F)
- Energy saving design

Exhaust heat amount is reduced 25% to suppress the ambient temperature rise (air-cooled type) and reduce the facility water amount (water-cooled type) (IDF100F to 150F).

Model	Rated inlet condition	Applicable air compressor [kW]	Port size
IDF100F	40°C 0.7 MPa	100	R2
IDF125F		125	65 (2 1/2B) Flange
IDF150F		150	80 (3B) Flange
IDF190D	0.7 WII a	190	60 (3b) Flaffye
IDF240D		240	100 (4B) Flange
IDF370D	35°C 0.7 MPa	370	150 (6B) Flange

High inlet air temperature type $IDU \square E$ Series

Model	Rated inlet condition	Applicable air compressor [kW]	Port size
IDU3E		2.2	Rc3/8
IDU4E		3.7	Rc1/2
IDU6E	55°C 0.7 MPa	5.5	
IDU8E		7.5	Rc3/4
IDU11E		11	
IDU15E1		15	Rc1
IDU22E		22	R1
IDU37E		37	R1 1/2
IDU55E		55	R2
IDU75E		75	ΠZ







IDF□**D**



^{*1} IDF4E to 75E/IDU3E to 75E

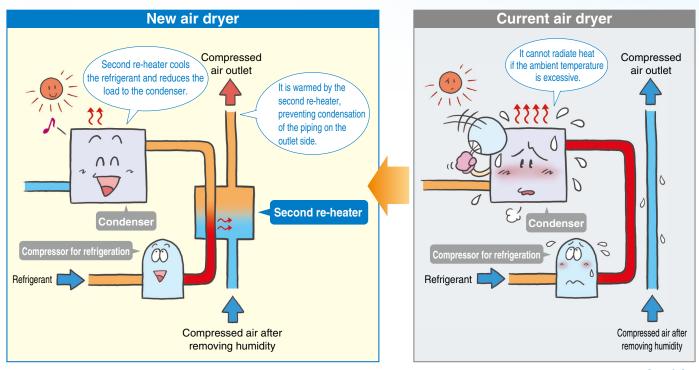
^{*} IDF4E to 75E/IDU3E to 75E

IDF100F/125F/150F Series

Tolerant of high temperature environment (ambient temperature 45°C), Energy saving design!

○ Air-cooled type can be used at ambient temperature 45°C.

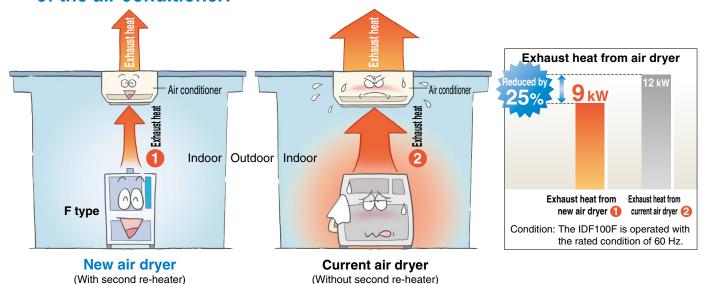
Second re-heater helps the heat radiation of the condenser allow use at ambient temperature 45°C.



Energy saving design: Reduces exhaust heat from air dryer by up to 25%. Suppresses ambient temperature increase (air-cooled type)/ Reduces amount of facility water (water-cooled type)!

Second re-heater reduces the load to the condenser, and reduces exhaust heat from air dryer by up to 25%. (comparison with other SMC products)

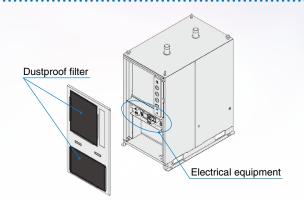
Reduced exhaust heat achieves downsizing and energy saving operation of the air conditioner!

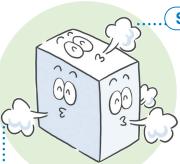




Maintenance

- Dustproof filter provided as a standard accessory
- Only access from front side is required to check electrical equipment and dustproof filter.

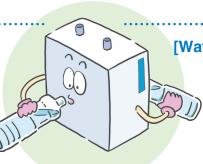




Selection of layout

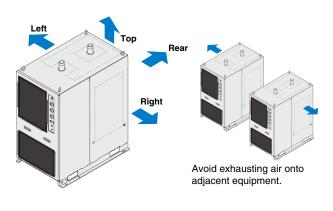
[Air-cooled type]

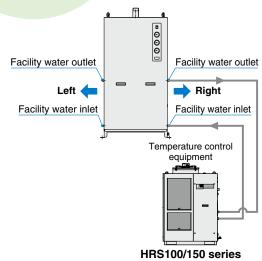
Exhausting direction can be selected from **four directions**!! Auto drain tube can be connected in **two directions**, left or right.

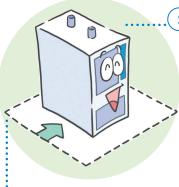


[Water-cooled type]

Facility water piping port can be selected from **two directions!!**





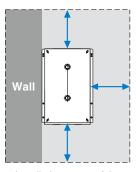


Space saving

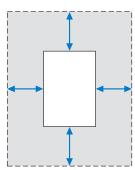
Either the left or right can be installed flat against a wall! *1 Installation space can be reduced by up to **1.5 m**²!!

1 For air-cooled type, leave a space of at least 600 mm between the heat exhausting surface and the wall. For water-cooled type, leave a space at least 600 mm between the facility water piping side and the wall.

Leave at least 600 mm on the sides indicated with ----.



Installation space of the IDF100F (Example: Installed flat against the wall on the left)



Installation space of the current type



Contents

Standard Inlet Air Temperature Type	IDF□E/F/D Series	Rated inlet air temperature: 35, 40°C

	Model		Rated	Air flow capacit	y [m³/min(ANR)]	Applicable air	.		_
		inlet condition	50 Hz	60 Hz	compressor [kW]	Refrigerant	Port size	Page	
	IDF1E		0.1	0.12	0.75				
	IDF2E		0.2	0.235	1.5		Rc3/8		
		IDF3E		0.32	0.37	2.2			
	11	IDF4E		0.52	0.57	3.7	R134a	Rc1/2	p. 7 to 10
		IDF6E	35°C	0.75	0.82	5.5	(HFC)		p. 7 to 10
	00000	IDF8E	0.7 MPa	1.22	1.32	7.5		Rc3/4	
IDFOE	IDF11E		1.65	1.82	11				
		IDF15E1		2.8	3.1	15		Rc1	
		IDF22E		3.9	4.3	22	R1 R1 1/2	R1	p. 11 to 13
		IDF37E		5.7	6.1	37		R1 1/2	
		IDF55E		8.4	9.8	55		R2	
		IDF75E		11.0	12.4	75			
		IDF100F		16.0	18.8	100			
Sa		IDF125F	40°C 0.7 MPa	20.1	23.7	125	R407C (HFC)	65(2 1/2B) Flange	
Large size series	IDF150F		25.0	30.0	150		90/2P) Flanca	p. 14 to 21	
	IDF190D		32.0	38.0	190		80(3B) Flange		
	IDF240D		43.0	50.0	240		100(4B) Flange		
La		IDF370D	35°C 0.7 MPa	54.0	65.0	370		150(6B) Flange	

High Inlet Air Temperature Type	IDU F Series	Rated inlet air temperature: 55°C
ringir inict Air Teiriperature Type	IDO L OCITES	matou milot am tomporataror oo o

Model		Rated			Applicable air	5		_
		inlet condition 50 Hz 60 Hz		compressor [kW]	Refrigerant	Port size	Page	
	IDU3E		0.32	0.37	2.2		Rc3/8	
	IDU4E		0.52	0.57	3.7		Rc1/2	
(5.00m)	IDU6E		0.75	0.82	5.5	R134a (HFC)	Rc3/4	p. 22 to 24 p. 25 to 27
	IDU8E	55°C	1.1	1.2	7.5			
	IDU11E		1.5	1.7	11			
Doses.	IDU15E1	0.7 MPa	2.6	2.8	15		Rc1	
	IDU22E		3.9	4.3	22		R1	
	IDU37E		5.7	6.1	37	R407C	R1 1/2	
	IDU55E		8.4	9.8	55	(HFC)	R2	
·	IDU75E		11.0	12.5	75		ri2	



Options

Description	Applicable model	Model (Suffix: Option symbol)	Page
Cool compressed air output	IDF1E to 75E	DF□E-□-A	
	IDF1E to 75E	IDF□E-□-C	
Auti compains to the standard for company to be	IDF100F to 150F	IDF□F-□-C	
Anti-corrosive treatment for copper tube	IDF190D to 370D	IDF□D-□(-□)-C	
	IDU3E to 75E	IDU□E-□-C	
With Chinese labels and	IDF1E to 75E	IDF□E-□-G	
a Chinese operation manual	IDU3E to 75E	IDU□E-□-G	p. 28, 29
	IDF6E to 37E	IDF□E-□-K	
Moderate pressure specification (up to 1.6 MPa)	IDU3E to 15E1	IDU□E-□-K	
(up to 1.0 mi a)	IDF100F to 150F	IDF□F-□-K	
	IDF4E to 75E	IDF□E-□-L	
With a heavy-duty auto drain*1 (applicable to moderate pressure)	IDF370D	IDF370D-□-L	
(applicable to moderate pressure)	IDU3E to 75E	IDU□E-□-L	
	IDF4E to 75E	IDF□E-□-M	
With a motor type auto drain*2	IDF190D, 240D	IDF□D-□(-□)-M	р. 30
	IDU3E to 75E	IDU□E-□-M	
With a metal name plate	IDF100F to 150F	IDF□F-□-P	p. 30
	IDF4E to 75E	IDF□E-□-R	
With an earth leakage breaker	IDF100F to 150F	IDF□F-□-R	p. 31
With all earth leakage breaker	IDF190D to 370D	IDF□D-3-R	μ. 31
	IDU3E to 75E	IDU□E-□-R	
Power supply terminal block connection	IDF1E to 15E1-10	IDF□E-10-S	
Power supply terminal block connection	IDU3E to 15E1-10	IDU□E-10-S	
With a terminal block for power supply,	IDF4E to 75E	IDF□E-□-T	p. 32
operating, and error signals*3	IDU3E to 75E	IDU□E-□-T	μ. 32
With a timer controlled solenoid valve type auto drain	IDU3E to 75E	IDU□E-□-V	
(applicable to moderate pressure)	IDF100F to 150F	IDF□F-□-V	
Water-cooled type*2	IDF100F to 150F	IDF□F-□-W	p. 33
water-cooled type -	IDF190D, 240D	IDF□D-3-W	μ. 33

^{*1} The IDF100F to 150F, 190D, 240D standard types are equipped with a heavy-duty auto drain and a terminal block for remote operation, stop, operating, and error signal.

Optional Accessories

Description	Page
Separately installed power transformer	
Dedicated base for separately installed power transformer	
Dust-protecting filter set	
Bypass piping set	
Foundation bolt set	p. 34 to 43
Piping adapter	
Mounting base adapter	
Conversion piping set	
Conversion bypass piping set	



^{*2} The IDF370D standard type is the water-cooled type with a motor type auto drain.

^{*3} When switching from the previous air dryer and remote operation are required, select the Made to Order (IDF/U□E-□-X256) product.

The IDF100F to 150F and 190D to 370D standard types are equipped with a terminal block for remote operation, stop, operating, and error signals.

IDF/IDU Series **Model Selection**

The corrected air flow capacity, which considers the user's operating conditions, is required for selecting air dryer. Select using the following procedures.

1 Select the IDF or IDU.	Select the IDF or IDU from inlet air temperature used. • Inlet air temperature 5 to 50°C ····· IDF (For IDF100F to 150F, up to 60°C is allowed.) • Inlet air temperature 50 to 80°C ····· IDU									
Read the correction factors.	IDF Selec	IDF Selection Example				IDU Selection Example				
Obtain the correction factors (A) to (D)	Condition		Data symbol	Correction factor *1	Condition		Data symbol	Correction factor *1		
suitable for your operating condition	Inlet air temperature	40°C	(A)	0.82	Inlet air temperature	60°C	(A)	0.95		
from the table on the next page.	Ambient temperature	35°C	B	0.96	Ambient temperature	35°C	B	0.93		
	Outlet air pressure dew point	10°C	©	1	Outlet air pressure dew point	10°C	C	1		
	Inlet air pressure	0.5 MPa	D	0.88	Inlet air pressure	0.5 MPa	D	0.88		
	Air flow rate	0.3 m ³ /min	_	_	Air flow rate	0.4 m ³ /min	_	_		
	Power supply frequency	50 Hz	_	_	Power supply frequency	60 Hz	_	_		
	*1 Values obtained from "	Correction Fac	tors" on p	age 6.	*1 Values obtained from "	Correction Fac	tors" on p	page 6.		
3 Check the coefficient.	Correction factor = 0.82 Max. coefficient value i when the calculation re	s 1.5. Correc	or is 1.5	Correction factor = 0.99 Max. coefficient value i when the calculation re	s 1.5. Correc	tion fac	tor is 1.5			
Calculate the corrected air flow capacity. Obtain the corrected air flow capacity from the following formula. Corrected air flow capacity = Air flow rate ÷ (Correction factor (A) x (B) x (C) x (D))	Corrected air flow capacity = 0.3 m³/min ÷ (0.82 x 0.96 x 1 x 0.88) = 0.43 m³/min				Corrected air flow ca	0.93	m³/min 3 x 1 x 0 m³/mir	.88)		
Select the model. Select the model with air flow capacity which exceeds the corrected air flow capacity from the specification table. (For air flow capacity, refer to the data © on page 6.)	According to the corrected air flow capacity of 0.43 m³/min, the IDF4E will be selected which air flow capacity is 0.52 m³/min at 50 Hz.			According to the correct 0.51 m³/min, the IDU4licapacity is 0.57 m³/min	E will be sele					
6 Options	Refer to pages 28 to 33.			Refer to pages 28 to 32	2.					
Finalize the model number.	Refer to pages 7, 11, 1	4, 19.		Refer to pages 22 and	25.					
Select the optional accessories.	Refer to pages 34 to 43	Refer to pages 34 to 43.								



Correction Factors

Data A: Inlet Air Temperature

IDF Series

Inlet air temp. [°C] 5 to 30

35

40

45

50

IDF1E to 37E

IDF55E. 75E. 190D to 240D IDF100F to 150F IDF370D

<i>-</i>	101 001, 101,	TOOD TO ETOI
orrection factor	Inlet air temp. [°C]	Correction factor
1.3	5 to 30	1.35
1	35	1.25
0.82	40	1
0.68	45	0.8
0.57	50	0.6

Inlet air	Correction
temp. [°C]	factor
5 to 30	1.41
35	1.21
40	1
45	0.92
50	0.75
55	0.63
60	0.53

	101 07 00					
t	Inlet air emp. [°C]	Correction factor				
	5 to 30	1.25				
	35	1.00				
	40	0.83				
	45	0.70				
	50	0.60				

IDU Series IDU3E to IDU37E IDU55E, 75E

			,
Inlet air temp. [°C]	Correction factor	Inlet air temp. [°C]	Correction factor
5 to 45	1.15	5 to 45	1.21
50	1.07	50	1.10
55	1	55	1
60	0.95	60	0.87
65	0.9	65	0.76
70	0.86	70	0.74
75	0.82	75	0.72
80	0.79	80	0.70

Data B: Ambient Temperature *1

IDF Series

IDF1E to 75E

Ambient temp. [°C]	Correction factor
2 to 25	1.14
30	1.04
32	1
35	0.96
40	0.9

IDE		+~	150F
IUFI	UUL	w	IOUE

DF ₁	00F	to	150F

Ambient temp. [°C]	Correction factor
2 to 25	1.06
30	1.02
32	1
35	0.99
40	0.98
45	0.92

IDF190D to 240D

Ambient temp. [°C]	Correction factor
2 to 25	1.10
30	1.05
32	1
35	0.95
40	0.90

IDU Series

DU3E to ID	U37E	IDU55E, 751	E
Ambient temp. [°C]	Correction factor	Ambient temp. [°C]	Correction factor
2 to 25	1.2	2 to 25	1.25
30	1.04	30	1.11
32	1	32	1
35	0.93	35	0.90
40 0.84		40	0.63

For the water-cooled type, the correction factor is determined to "1" in an ambient temperature range of 2 to 45°C.

Data ©: Outlet Air Pressure Dew Point

IDF Series IDU Series IDF1E to 75E, IDU3E to IDU37E 190D to 370D

Outlet air pressure dew point [°C]	Correction factor	Outlet air pressure dew point [°C]	Correction factor
3	0.55	3	0.55
5	0.7	5	0.7
10	1	10	1
15	1.3	15	1.3

IDE100F to 150F IDU55F 75F

<u>ID1 1001 to 1001</u>			100	 , , , , _
	Outlet air pressure dew point [°C]	Correction factor	Outlet air predew point [Correction factor
	3	0.55	3	0.53
	5	0.7	5	0.67
	10	1	10	1
	15	1.4	15	1.30

Data D: Inlet Air Pressure

IDF Series

IDF1E to 75E IDF100F to 150F IDF190D to 370D

Inlet air pressure [MPa]		Inlet ai pressur [MPa]	e	Inlet ai pressur [MPa]	re
0.2	0.62	0.2	0.84	0.2	0.68
0.3	0.72	0.3	0.87	0.3	0.77
0.4	0.81	0.4	0.9	0.4	0.84
0.5	0.88	0.5	0.93	0.5	0.90
0.6	0.95	0.6	0.96	0.6	0.95
0.7	1	0.7	1	0.7	1
0.8	1.06	0.8	1.03	0.8	1.03
0.9	1.11	0.9	1.06	0.9	1.06
1 to 1.6	1.16	1 to 1.	6 1.09	1.0	1.08

IDU Series IDU3E to 37E IDU55E, 75E

			.,
Inlet air pressure [MPa]	Correction factor	Inlet air pressure [MPa]	Correction factor
0.2	0.62	0.2	0.62
0.3	0.72	0.3	0.69
0.4	0.81	0.4	0.77
0.5	0.88	0.5	0.85
0.6	0.95	0.6	0.93
0.7	1	0.7	1
0.8	1.06	0.8	1.08
0.9	1.11	0.9	1.16
1 to 1.6	1.16	1 to 1.6	1.23

Data E: Air Flow Capacity

IDF Series

ibi ociica												
Model	IDF1E	IDF2E	IDF3E	IDF4E	IDF6E	IDF8E	IDF11E	IDF15E1	IDF22E	IDF37E	IDF55E	IDF75E
Air flow capacity 50 Hz	0.10	0.20	0.32	0.52	0.75	1.22	1.65	2.8	3.9	5.7	8.4	11.0
[m³/min (ANR)] 60 Hz	0.12	0.235	0.37	0.57	0.82	1.32	1.82	3.1	4.3	6.1	9.8	12.4

Model		IDF100F	IDF125F	IDF150F	IDF190D	IDF240D	IDF370D
Air flow capacity	50 Hz	16.0	20.1	25.0	32.0	43.0	54.0
[m³/min (ANR)]	60 Hz	18.8	23.7	30.0	38.0	50.0	65.0

^{*} In the case of the Option A (cool compressed air output), the air flow capacity is different. Refer to page 28 for details.

IDU Series

Model	IDU3E	IDU4E	IDU6E	IDU8E	IDU11E	IDU15E1	IDU22E	IDU37E	IDU55E	IDU75E
Air flow capacity 50 Hz	0.32	0.52	0.75	1.1	1.5	2.6	3.9	5.7	8.4	11.0
[m³/min (ANR)] 60 Hz	0.37	0.57	0.82	1.2	1.7	2.8	4.3	6.1	9.8	12.5

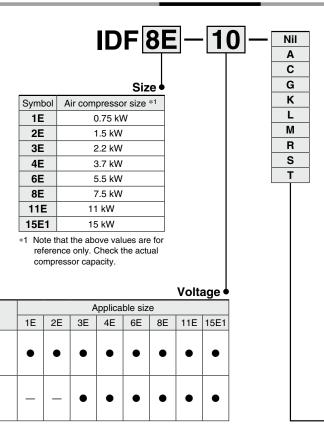
Refrigerant R134a (HFC) Standard Inlet Air Temperature

IDF E Series

1E, 2E, 3E, 4E, 6E, 8E, 11E, 15E1

(Inlet air temperature: 35°C, Outlet air pressure dew point: 10°C)

How to Order



Options

Symbol *1	Nil	Α	С	G	K	L	М	R	S	Т
Description	None	Cool compressed air output	Anti-corrosive treatment for copper tube	With Chinese labels and a Chinese operation manual	Moderate pressure specification *2 (Auto drain bowl: Metal bowl with level gauge)	With a heavy-duty auto drain (applicable to moderate pressure)	With a motor type auto drain	pe leakage connection		With a terminal block for power supply, operating, and error signals *4
1E	•	•	•	•	_	_	_	_	•	_
2E	•	•	•	•	_	_	_	_	•	_
3E	•	•	•	•	_	_	_	_	•	_
4E	•	•	•	•	_	•	•	•	•	•
6E	•	•	•	•	•	•	•	•	•	•
8E	•	•	•	•	•	•	•	•	•	•
11E	•	•	•	•	•	•	•	•	•	•
15E1	•	•	•	•	•	•	•	•	•	•

- *1 When multiple options are combined, indicate symbols in alphabetical order.
 - However, the following combinations are not possible.

 R and S (Because S function is also included in R.)
 - S and T (Because S function is also included in T.)
 - · The combination of K, L and M is not possible because an auto drain can only be attached to a single option.
- *2 The maximum operating pressure is 1.6 MPa.
- *3 Voltage symbol 20 (200 VAC) is the terminal block connection as standard. The Option S cannot be chosen.
- Voltage symbol 10 (100 VAC) is the power cable with plug as standard.

 *4 To users who are considering switching from the previous air dryer:

When switching from the previous air dryer and remote operation are required, select the Made to Order (IDF□E-□-X256) product.

* Refer to pages 28 to 32 for further information on options



Symbol

10

20

Voltage

Single-phase

100 VAC (50Hz) 100/110 VAC (60Hz) Single-phase

200 VAC (50Hz) 200/220 VAC (60Hz)

Options

Optional

Precautions

Standard Specifications





			Model			Stan	dard inlet	air tempera	ature							
Sp	ecifications			IDF1E	IDF2E	IDF3E	IDF4E	IDF6E	IDF8E	IDF11E	IDF15E1					
8	Fluid						Compre	ssed air								
Operating range *3	Inlet air to	emperatur	e [°C]				5 to	50								
ating	Inlet air p	ressure	[MPa]				0.15	to 1.0								
og o	Ambient tem	perature (Hum	idity) [°C]			2 to 40 (F	Relative hu	midity 85%	6 or less)							
	A ! 4!	Standard conditio	n 50 Hz	0.10	0.20	0.32	0.52	0.75	1.22	1.65	2.8					
*	Air flow capacity	(ANR) *1	60 Hz	0.12	0.235	0.37	0.57	0.82	1.32	1.82	3.1					
	[m³/min]	Compressor intak	e 50 Hz	0.11	0.21	0.34	0.55	0.8	1.3	1.75	3.0					
ō	[condition *2	60 Hz	0.13												
튱	Inlet air p	ressure	[MPa]		0.7											
conditions	Inlet air to	emperatur	e [°C]		35											
큣	Ambient t	emperatur	e [°C]		32											
ated	Outlet air pre	ssure dew poir	nt [°C]		10											
۳		pply volta	ge						110 VAC (
	(Frequen	cy) *5			Single-	phase: 200	VAC (50	Hz), 200/2	220 VAC (60 Hz)						
Electric	Power consun	nption Single-p	hase 100 V	180/202	180/202	180/202	180/202	180/202	208/236	385/440	420/480					
ctric	50/60 Hz *6 [W	2 T.I. 3.2	hase 200 V	_	_											
e Ele	Operating cur		hase 100 V	2.4/2.5	2.4/2.5	2.4/2.5	2.4/2.5	2.4/2.5	3.0/3.1	5.7/5.7	4.3/4.6					
S	50/60 HZ *° [A	1 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	hase 200 V	_	_	1.2/1.3	1.2/1.3	1.2/1.3	1.5/1.5	3.4/3.0	3.4/3.1					
	plicable ear eaker capac		[A]			10 (100 '	VAC), 5 (2	00 VAC)			10 (100 VAC)					
		k current of 30	mA)			(,,				10 (200 VAC)					
Co	ndenser						Air-co	ooled								
Re	frigerant						R134a	(HFC)								
Re	frigerant o	charge	[kg]	0.07	0.115	0.15	0.18	0.20	0.25	0.26	0.35					
Δ.	ıto drain			Float type				Float type								
^(ato di di ii			(Normally closed)			(No	ormally ope	en)							
-	ort size				Rc3/8		Rc1/2		Rc3/4		Rc1					
W	eight		[kg]	16	17	18	22	23	27	28	46					
	plicable air cor ference) For s	npressor outp	^{ut} [kW]	0.75	1.5	2.2	3.7	5.5	7.5	11	15					
		oity under th			(AND) (000)	0.4:		1.050/								

- *1 Air flow capacity under the standard condition (ANR) [20°C, Atmospheric pressure, and 65% Relative humidity]
- *2 Air flow capacity converted by the compressor intake condition [32°C, Atmospheric pressure, and 75% Relative humidity]
- *3 The operation range does not guarantee the use with normal air flow capacity.
- *4 Select the model in accordance with Model Selection (pages 5, 6) for models beyond the rated specifications.
- *5 When selecting a power supply voltage, refer to the How to Order on page 7.
- *6 These values are reference values under rated conditions, and are not guaranteed. Do not use these values for the thermal set values, etc. *7 Product other than the Option R is not equipped with an earth leakage breaker. Purchase an appropriate earth leakage breaker separately.
 - Replacement Parts

Model		IDF1E	IDF2E	IDF3E	IDF4E	IDF6E	IDF8E	IDF11E	IDF15E1
Auto drain	New	AD37-A		AD38-A	,		AI	D48-A	
replacement parts no. *8	Previous	AD37		AD38			F	D48	

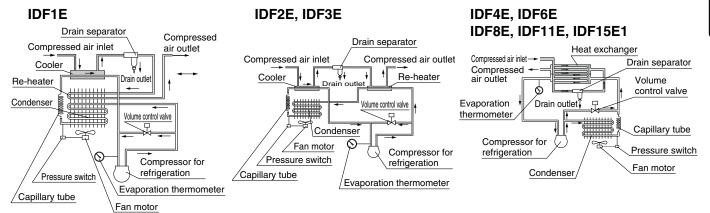
*8 The part number for the auto drain (Bowl assembly) components only excluding the body part. Body part replacement is not possible.

In addition, a new line of auto drain models was recently introduced in March 2019. The previous models and the new models do not have mounting interchangeability. For details, refer to page 43-1.



Construction (Air/Refrigerant Circuit)

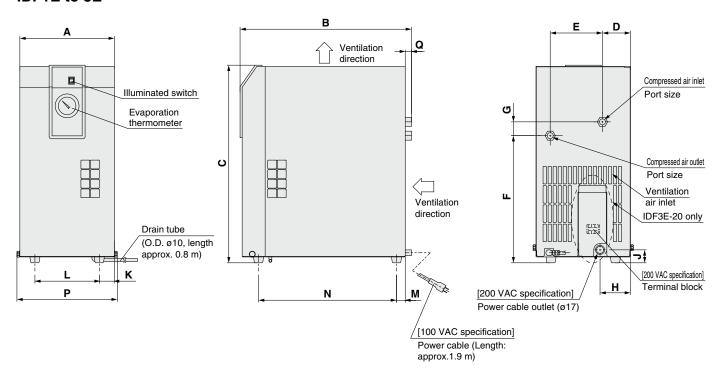
Humid, hot air coming into the air dryer will be cooled down by a cooler (heat exchanger). Water condensed at this time will be removed from the air by a drain separator (auto drain) and drained out automatically. Air separated from the water will be heated by a re-heater (heat exchanger) to obtain the dried air, which goes through to the outlet side.



IDF □ *E* Series

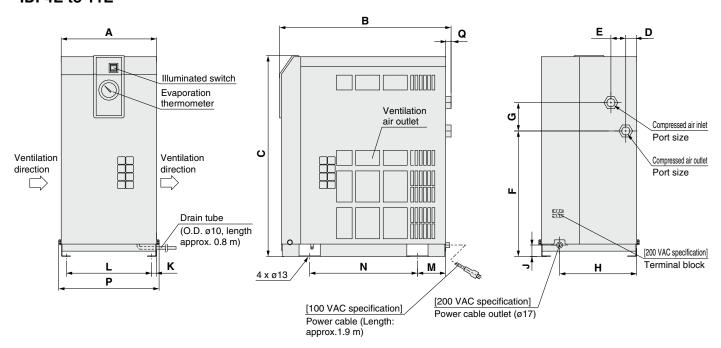
Dimensions

IDF1E to 3E



IDF4E to 11E

9

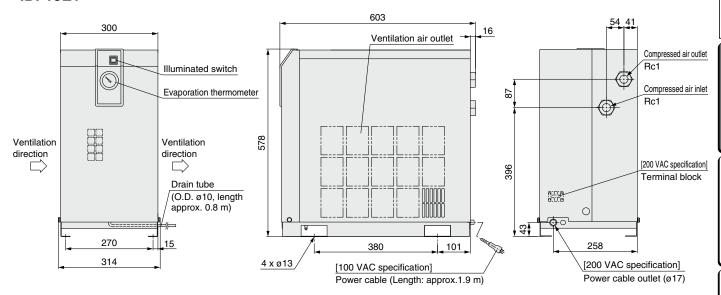


Dimensio	ns															[mm]
Model	Port size	Α	В	С	D	Е	F	G	Н	J	K	L	М	N	Р	Q
IDF1E				413	69	101	270	32			38	150	21	330		
IDF2E	Rc3/8	226	410	413	51	105	232	138	_	_	36	150	24	327	240	15
IDF3E				473	67	125	304	33	33 73	31	36	154	21	330		
IDF4E	Rc1/2		453	498			202				20 45		80	275		13
IDF6E		270	455	490	21	42	283	80	230	00		240		2/5	284	
IDF8E	Rc3/4	270	485	568	31		255	00	230	32	15	240	00	300	204	15
IDF11E			485	500			355							300		

Refrigerated Air Dryer *IDF E Series*

Dimensions

IDF15E1

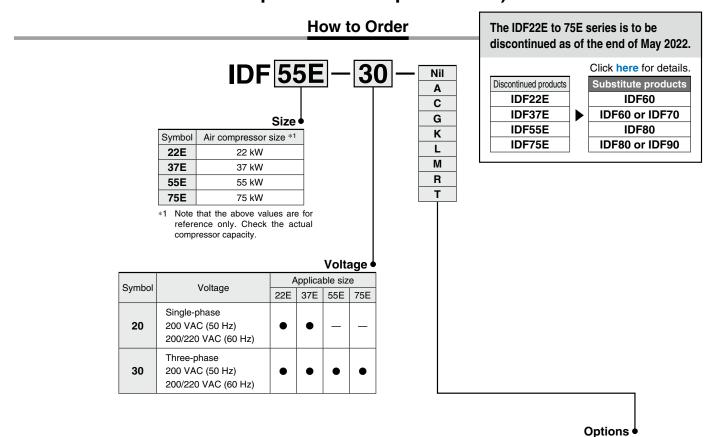


Refrigerant R407C (HFC) Standard Inlet Air Temperature

IDF E Series

22E, 37E, 55E, 75E

(Inlet air temperature: 35°C (22E, 37E), 40°C (55E, 75E), Outlet air pressure dew point: 10°C)



Symbol *1	Nil	Α	С	G	K	L	М	R	Т
Description	None	Cool compressed air output	Anti-corrosive treatment for copper tube	lahale and	Moderate pressure specification *2 (Auto drain bowl: Metal bowl with level gauge)	With a heavy-duty auto drain (applicable to moderate pressure)	With a motor type auto drain	With an earth leakage breaker	With a terminal block for power supply, operating, and error signals *4
22E	•	•	•	•	•	•	•	•	•
37E	•	•	•	•	•	•	•	•	•
55E	•	•	•	•	*3	•	•	•	•
75E	•	•	•	•	*3	•	•	•	•

^{*1} When multiple options are combined, indicate symbols in alphabetical order. However, the following combinations are not possible.

When switching from the previous air dryer and remote operation are required, select the Made to Order (IDF \Box E- \Box -X256) product.

* Refer to pages 28 to 32 for further information on options



[•] The combination of K, L and M is not possible because an auto drain can only be attached to a single option.

^{*2} The maximum operating pressure is 1.6 MPa.

^{*3} Select the Option L for the 55E and 75E which need moderate pressure.

 $st 4\,$ To users who are considering switching from the previous air dryer:

Model Selection

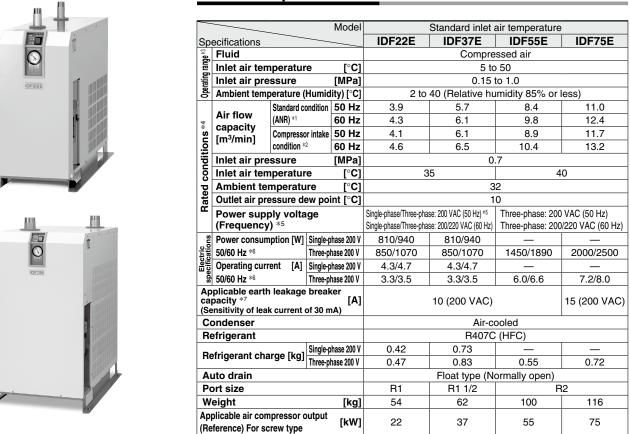
Refrigerant R134a (HFC) IDF∏E

> frigerant R407C (HFC IDF∏E

Refrigerant R407C (HFC) IDF□F

Specific Product Precautions

Standard Specifications



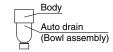
- $*1 \ \ \, \text{Air flow capacity under the standard condition (ANR) [20°C, Atmospheric pressure, and 65\% Relative humidity]}$
- *2 Air flow capacity converted by the compressor intake condition [32°C, Atmospheric pressure, and 75% Relative humidity]
- *3 The operation range does not guarantee the use with normal air flow capacity.
- *4 Select the model in accordance with Model Selection (pages 5, 6) for models beyond the rated specifications.
- *5 When selecting a power supply voltage, refer to the How to Order on page 11.
- *6 These values are reference values under rated conditions, and are not guaranteed. Do not use these values for the thermal set values, etc.
- *7 Product other than the Option R is not equipped with an earth leakage breaker. Purchase an appropriate earth leakage breaker separately.

Replacement Parts

Model		IDF22E	IDF37E	IDF55E	IDF75E
Auto drain replacement parts no. *8	New		AD4	18-A	
Auto drain replacement parts no.	Previous		AD)48	

*8 The part number for the auto drain (Bowl assembly) components only excluding the body part. Body part replacement is not possible.

In addition, a new line of auto drain models was recently introduced in either March or June 2019. The previous models and the new models do not have mounting interchangeability. For details, refer to page 43-1.



Construction (Air/Refrigerant Circuit)

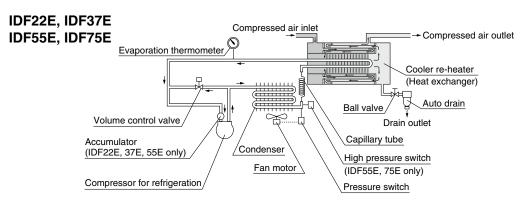
Symbol

Refrigerated

Auto drain

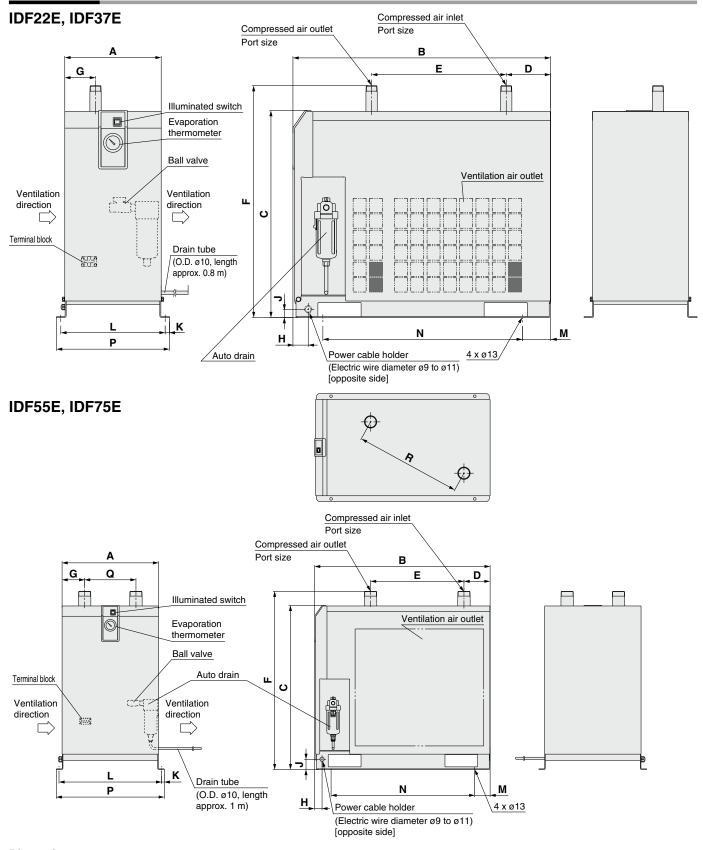
air drver

Humid, hot air coming into the air dryer will be cooled down by a cooler re-heater (heat exchanger). Water condensed at this time will be removed from the air by an auto drain and drained out automatically. Air separated from the water will be heated by a cooler re-heater (heat exchanger) to obtain the dried air, which goes through to the outlet side.



IDF □ *E* Series

Dimensions



Dimensio	ns																[mm]
Model	Port size	Α	В	С	D	Е	F	G	Н	J	K	L	M	N	Р	Q	R
IDF22E	R1	290	775	623	134	405	698	93	46	25	13	314	85	600	340		
IDF37E	R1 1/2	290	855	023	134	405	090	93	40	25	13	314	65	680	340	_	_
IDF55E	R2	470	855	800	128	455	868	110	36	50	13	500	75	700	526	250	519
IDF75E	H2	470	855	900	128	455	968	110	30	50	13	500	/5	700	520	250	519
13								200	31/10								

Refrigerant R407C (HFC)

IDF100F/125F/150F Series

Applicable Compressor Size: 100 kW, 125 kW, 150 kW (Max. inlet air temperature: 60°C, Max. ambient temperature: 45°C)

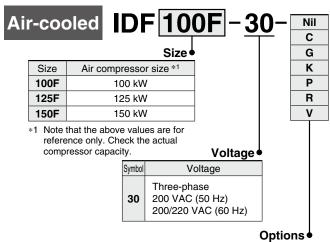
How to Order

Nil

1

2

3



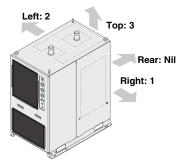
Symbol *1	Description
Nil	None
С	Anti-corrosive treatment for copper tube
G	With Chinese labels and a Chinese operation manual
K	Moderate pressure specification (Up to 1.6 MPa)
Р	With a metal name plate
R	With an earth leakage breaker
٧	With a timer controlled solenoid valve type auto drain

- When multiple options are combined, indicate symbols in alphabetical order.
- A terminal block for remote operation, stop, operating, and
- error signals is included as standard equipment. Refer to pages 28 to 32 for further information on options.

Heat exhausting direction

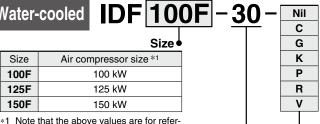
Symbol	Description
Nil	Heat exhaust from the rear
1	Heat exhaust from the right *1
2	Heat exhaust from the left *1
3	Heat exhaust from the top *1

*1 The combination of 1, 2 and 3 is not available. (Heat exhausting face can be specified on one side only.)







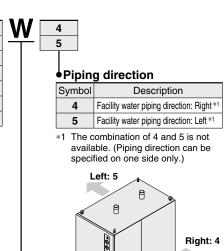


ence only. Check the actual compressor capacity.

actuai	compressor	Voltage •
Symbol	Vol	tage
30	Three-phas 200 VAC (\$ 200/220 VA	50 Hz)

	Οριιοπ•
Symbol *1	Description
Nil	None
С	Anti-corrosive treatment for copper tube
G	With Chinese labels and a Chinese operation manual
K	Moderate pressure specification (Up to 1.6 MPa)
Р	With a metal name plate
R	With an earth leakage breaker
V	With a timer controlled solenoid valve type auto drain

- *1 Enter alphabetically when multiple options are combined.
- * A terminal block for remote operation, stop, operating, and error signals is included as standard equipment.
- * Refer to pages 28 to 32 for further information on options.



	1 2000		Right: 4
Cooling	method	i	

Cooling method W Water-cooled condenser

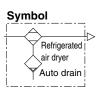




IDF100F/125F/150F Series





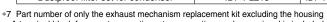


Standard Specifications: Air-cooled Type

Sp	ecifications		Model	IDF100F-30	IDF125F-30	IDF150F-30				
å.	Fluid			Compressed air						
Operating range *3	Inlet air temp	perature	[°C]		5 to 60					
atin	Inlet air pres	sure	[MPa]		0.15 to 1.0					
9 Be	Ambient tem	perature (Humidit	y) [°C]	2 to 45 (R	elative humidity 85	i% or less)				
		Standard condition	50 Hz	16	20.1	25				
	Air flow capacity	(ANR) *1	60 Hz	18.8	23.7	30				
*	[m³/min]	Compressor intake	50 Hz	17	21	27				
Su	[condition *2	60 Hz	20	25	32				
Rated conditions	Inlet air pres	sure	[MPa]		0.7					
l puo	Inlet air temp	oerature	[°C]		40					
Ö	Ambient tem	perature	[°C]		32					
ate	Outlet air pro	essure dew point	[°C]	10						
۳	Exhaust heat from	m condenser (50/60 Hz)	[kW]	8.0/9.0	10.0/11.5	12.0/15.0				
	Air dryer out	let air temperatur	e [°C]	37						
		voltage (Frequency	y)	Three-phase 200 VAC (50 Hz), 200/220 VAC (60 Hz)						
Electric specifications	Power consu	mption [kW] 50/60) Hz *5	2.9/3.5	4.0/4.7	4.0/4.8				
Specifi	Operating cu	urrent *5 [A] 50/60) Hz	10.5/11.5 15.4/15.6 15.7/16						
		n leakage capacity ak current of 30 mA		30						
Re	efrigerant				R407C (HFC)					
Re	efrigerant cha	ırge	[kg]	1.1	1.6	1.98				
Αι	ıto drain			Heavy-dut	y auto drain (Norm	nally open)				
Po	ort size			R2	JIS Flange 65A 10K	JIS Flange 80A 10K				
W	eight		[kg]	245	270	350				
	oplicable air c eference) For	ompressor output screw type	[kW]	100						

- Air flow capacity under the standard condition (ANR) [20°C, Atmospheric pressure, and 65% Relative humidity]
- *2 Air flow capacity converted by the compressor intake condition [32°C, Atmospheric pressure, relative humidity 75%]
- *3 The operation range does not guarantee the use with normal air flow capacity.
- Select the model in accordance with Model Selection (pages 5, 6) for models beyond the rated specifications. These values are reference values under rated conditions, and are not guaranteed. Do not use these values for the thermal set values, etc.
- *6 Product other than the Option R is not equipped with an earth leakage breaker. Purchase an appropriate earth leakage breaker separately

Replacement Parts			
Air dryer model	IDF100F	IDF125F	IDF150F
Heavy-duty auto drain replacement part no. *7		ADH-E400	
Dustproof filter set for condenser	IDF-F	L219	IDF-FL220



A terminal block for remote operation, stop, operating, and error signal is included as standard equipment.

Housing (Use existing equipment.)

Exhaust mechanism

replacement kit

Construction (Air/Refrigerant Circuit)

IDF100F, IDF125F, IDF150F Condenser Filter dryer Fan motor Air pressure gauge Pressure switch Compressed air inlet High pressure switch Low pressure Compressor for refrigeration Second re-heater switch Condensed pressure gauge Volume control valve Capillary tube Compressed Evaporation thermometer Ball valve Auto drain Cooler re-heater

Hot and humid air entering the air dryer is cooled down by the cooler re-heater (heat exchanger). The moisture which is condensed and separated is automatically exhausted by the auto drain. The air which has had its moisture removed is heated in two stages by the re-heater (heat exchanger) in the cooler reheater and by the second re-heater, and is supplied to the outlet side as warm and dry air.

Second re-heater

Compressed air from which drainage has been exhausted exchanges heat with refrigerant which has been compressed by the compressor for refrigeration, to give the following effects:

- 1. The outlet air temperature increases, preventing condensation of the piping on the outlet side.
- 2. The amount of heat exhausted from the condenser is re-
- 3. Energy saving operation of the air dryer is achieved by reducing the amount of heat exhausted from the condenser.



Drain outlet

Model Selection

Refrigerant R134a (HFC)

Refrigerant R407C (HFC)

Refrigerant R134a

igerant R407C (HFC) IDU□E

Options

Accessories

Precautions

Standard Specifications: Water-cooled Type

M 111 0	Sp	ecifications		Model	IDF100F-30-W	IDF125F-30-W	IDF150F-30-W		
	<u>ه</u>	Fluid			Compressed air				
•	Dperating range *3	Inlet air temperature [°C]			5 to 60				
9	ating	Inlet air pres	sure	[MPa]		0.15 to 1.0			
	9 Per	Ambient tem	perature (Humidi	ty) [°C]	2 to 45 (Re	elative humidity 85	5% or less)		
			Standard condition	50 Hz	16	20.1	25		
		Air flow	(ANR) *1	60 Hz	18.8	23.7	30		
		capacity [m³/min]	Compressor intake	50 Hz	17	21	27		
		[/]	condition *2	60 Hz	20	25	32		
	Sug	Inlet air pres	sure	[MPa]		0.7			
	conditions	Inlet air temp	oerature	[°C]		40			
	Į p	Ambient temperature [°C]				32			
		Outlet air pre	essure dew point	[°C]		10			
	Rated	Air dryer out	let air temperatu	re [°C]		37			
	Ba	Facility water flo	ow rate *4 (50/60 Hz)	[m ³ /h]	1.29/1.56	1.74/1.98	2.16/2.52		
		Facility water	inlet temperature	[°C]	32				
0		Facility water pres	ssure drop *5 (50/60 Hz)	[MPa]		0.07/0.1			
			er capacity *6 [k\	<u> </u>	` '	11.5 (2.5)	14.5 (3.2)		
		Recommended	chiller model *6 (made	by SMC)	HRS100-A	HRS150-A			
	ici		y voltage (Frequer		·	VAC (50 Hz), 200	/220 VAC (60 Hz)		
	Electr		mption [kW] 50/60		2.4/2.8	2.4/2.8	2.8/3.3		
	-		rrent [A] 50/60 Hz		8.5/9.0	8.5/9.0	10.2/11.5		
	-		ressure range	[MPa]					
	-		. ,	[m ³ /h]		1.74/1.98	2.16/2.52		
	-		t temperature range	[°C]		5 to 40			
	-	cility water p				/2	R3/4		
	_		ount adjusting equi	pment	Pressure type water regulating valve				
	-	ondenser		_		Plate type	ſ		
			leakage capacity ak current of 30 m.		2	0	30		
	Re	efrigerant				R407C (HFC)			
TO.	Re	efrigerant cha	rge	[kg]	0.9	1.2	1.5		
	-	uto drain				y auto drain (Norn			
	Po	ort size			R2	JIS Flange 65A 10K	JIS Flange 80A 10K		
	W	eight		[kg]	226	250	322		
	A _I	oplicable air c teference) For	compressor outpo	^{It} [kW]	100	125	150		

- (Reference) For screw type

- Air flow capacity under the standard condition (ANR) [20°C, Atmospheric pressure, and 65% Relative humidity] Air flow capacity converted by the compressor intake condition [32°C, Atmospheric pressure, relative humidity 75%] The operation range does not guarantee the use with normal air flow capacity. Select the model in accordance with Model Selection (pages 5, 6) for models beyond the rated specifications. The facility water flow rate that satisfies the rated conditions with a facility water inlet temperature of 32°C and an output temperature of 37°C (\supseteq t = 5°C) These values are obtained under rated conditions with a rated facility water flow rate and a facility water inlet pressure of 0.2 MPa. These values are obtained under rated conditions (1 RT = 4.535 kW). These values are reference values under rated conditions, and are not guaranteed. Do not use these values for the thermal set values, etc.

- Product other than the Option R is not equipped with an earth leakage breaker. Purchase an appropriate earth leakage breaker separately. Exhaust mechanism

Purchase an appropriate earth leakage breaker separately.										
Replacement Parts										
Air dryer model	IDF100F-W	IDF125F-W	IDF150F-W							
Heavy-duty auto drain replacement part no *9		ADH-F400								

IDF-S0406 IDF-S0418 Facility water piping strainer

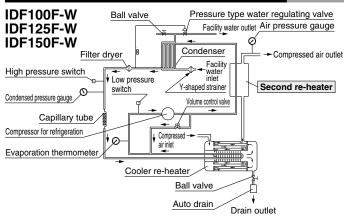
*9 Part number of only the exhaust mechanism replacement kit excluding the housing * A terminal block for remote operation, stop, operating, and error signal is included as standard equipment

(Use existing equipment.)

Construction (Air/Refrigerant Circuit)

Symbol

Refrigerated air dryer Auto drain



Hot and humid air entering the air dryer is cooled down by the cooler re-heater (heat exchanger). The moisture which is condensed and separated is automatically exhausted by the auto drain. The air which has had its moisture removed is heated in two stages by the re-heater (heat exchanger) in the cooler re-heater and by the second re-heater, and is supplied to the outlet side as warm and dry air.

Second re-heater

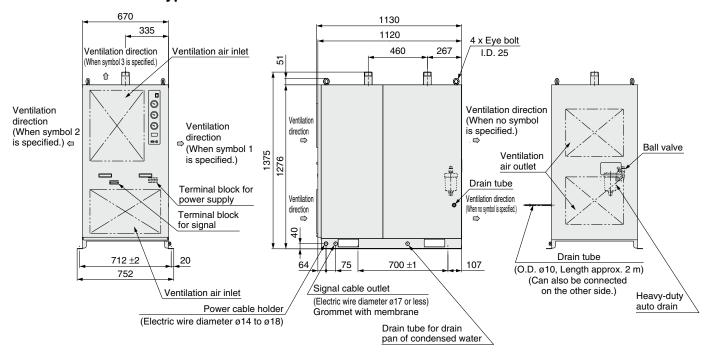
Compressed air from which drainage has been exhausted exchanges heat with refrigerant which has been compressed by the compressor for refrigeration, to give the following effects:

- 1. The outlet air temperature increases, preventing condensation of the piping on the outlet side.
- 2. The amount of heat exhausted from the condenser is reduced.
- Energy saving operation of the air dryer is achieved by reducing the amount of heat exhausted from the condenser.

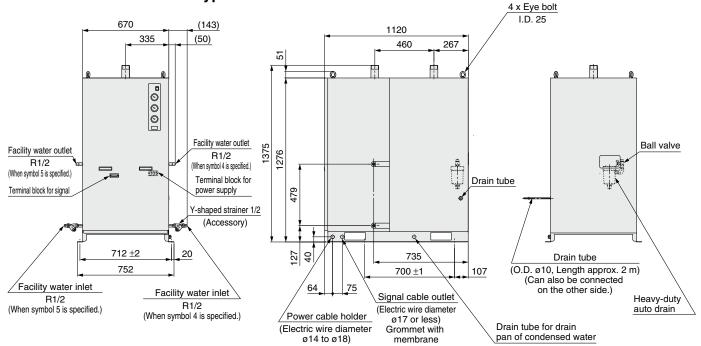
IDF100F/125F/150F Series

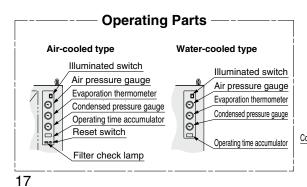
Dimensions

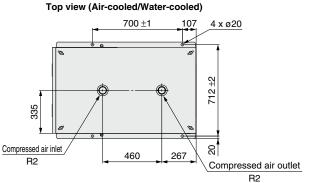
IDF100F: Air-cooled type



IDF100F-W: Water-cooled type





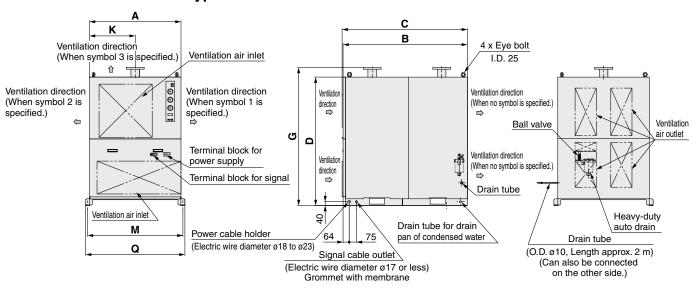


SMC

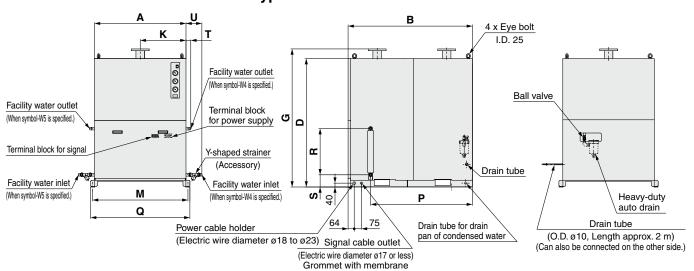
Refrigerated Air Dryer IDF100F/125F/150F Series

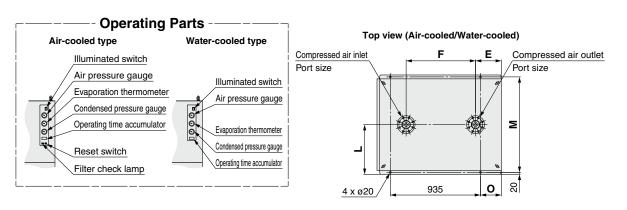
Dimensions

IDF125F/150F: Air-cooled type



IDF125F-W/150F-W: Water-cooled type





Dimensions

ווטופווזפוווע	Immj																		
Model	Port size	A	В	С	D	E	F	G	K	L	М	0	Р	Q	R	s	Т	U	Facility water inlet/outlet
IDF125F	JIS Flange	700	1120	1130	1276	267	655	1375	350	376	712	78	_	752	_		_	_	_
IDF125F-W	65A 10K	700	1120	1120	1270	207	/ 655	333 1373	373 330	, 3,6	/ 12	/6	885	732	479	127	36	129	R1/2
IDF150F	JIS Flange	950	1290	1300	1332	268	700	1400	175	E1E	990	217	_	1030	_	_	_	_	_
IDF150F-W	80A 10K	950	1290	1290	1332	200	720	720 1432	432 475	515	990	217	1056	1030	479	127	50	165	R3/4

Model Selection

Refrigerant R134a (HFC) IDF

> (HFC) Refrigerant R407C

Refrigerant R407C (HFC)

Refrigerant R134a

Refrigerant R407C (HFC) Standard Inlet Air Temperature

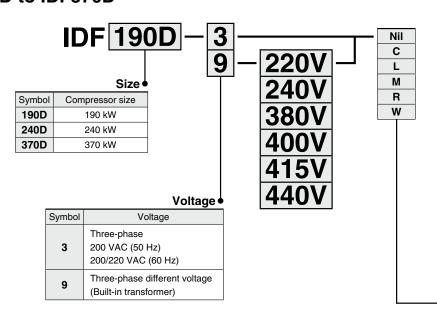
IDF D Series

190D, 240D, 370D

(Inlet air temperature: 40°C (190D, 240D), 35°C (370D), Outlet air pressure dew point: 10°C)

How to Order

Refrigerant R407C IDF190D to IDF370D



							Optiono 1
	Symbol *1	Nil	С	L	M	R	W
Size	Description	None	Anti-corrosive treatment for copper tube	With a heavy-duty auto drain	With a motor type auto drain	With an earth leakage breaker	Water-cooled type
190D	3	•	•	Standard	•	•	•
1900	9	•	•	Standard	•	*2	_
240D	3	•	•	Standard	•	•	•
2400	9	•	•	Standard	•	— *2	_
370D	3	•	•	•	Standard	•	Standard
3700	9	•	•	•	Standard	*2	Standard

Options

- *1 When multiple options are combined, indicate symbols in alphabetical order.
- *2 Purchase an appropriate earth leakage breaker suitable for the inlet voltage separately.
- * Refer to pages 28 to 33 for further information on options.
- * The standard type (Nil) is equipped with a terminal block for remote operation, stop, operating, and error signals.



		_		Model	Standard inlet air temperature						
Sp	ecification	s			IDF190D						
& ⊗	Fluid					Compressed air					
Operating range *3	Inlet air t	empera	ature	[°C]		5 to 50					
agi.	Inlet air p			[MPa]		0.15 to 0.97					
흥	Ambient ter	nperature	(Humi	idity)[°C]	2 to 40 (Relative hu	midity 85% or less)	2 to 43 (Relative humidity 85% or less)				
	Air flow	Standard co		50 Hz	32	43	54				
*	capacity	(ANR) *		60 Hz	38	50	65				
ns.	[m³/min]			50 Hz	34	46	57				
∣ઃ≘		conditio		60 Hz	40	53	69				
conditions	Inlet air p			[MPa]		0.7					
5	Inlet air t					0	35				
	Ambient				3	2	_				
Rated	Outlet air pr				10						
Power supply voltage (Frequency) *5					Three-phase: 20 200/220 V	Three-phase: 200 VAC (50/60 Hz)					
	<u> </u>	ion .	Thro	e-phase	4.9	6.3	11.6				
tions	Power consumpti	" [kW]	200 \		5.9	7.6	11.6				
Electric specifications	Operating cu				19.5	26.1	36.5				
eds	50/60 Hz *6	[A]	200 \		20.1	26.4	36.5				
	plicable earth				50						
Cc	ndenser				Air-c	ooled	Water-cooled				
Ai	r re-heate	r/Air co	oler		Class 2 pressure vessel						
Re	frigerant					R407C (HFC)					
Re	frigerant	charge		[kg]	2.48	4.5	11.0				
Αι	ıto drain				ADH40	000-04	ADM200-042-8				
Po	ort size *8				80 (3B) Flange	100 (4B) Flange	150 (6B) Flange				
W	eight			[kg]	450	660	1100				
	plicable air co ference) For			^{ut} [kW]	190	240	370				

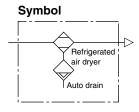
Water-cooled Condenser (IDF370D)

Condenser	Shell and tube type
Cooling water flow rate *1	6 m ³ /h
Cooling tower performance *2	10 RT
Water flow regulator	Pressure type automatic water supply valve
Port size for water side	1 1/4 union

- *1 Value with rated load when cooling water inlet temperature is 32°C.
- *2 Calculated at 1 RT = 4.535 kW

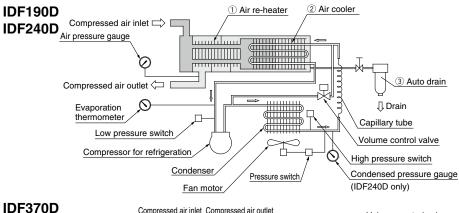
Motor Type Auto Drain

Model	Operati	ng cycle					
IDF370D	4 times per minute	for 8 seconds every one minute					
Power supply	200 VAC	50/60 Hz					
Power consumption	on 4 W						



- *1 Air flow capacity under the standard condition (ANR) [20°C, Atmospheric pressure, and 65% Relative humidity]
- *2 Air flow capacity converted by the compressor intake condition [32°C, Atmospheric pressure, and 75% Relative humidity]
- *3 The operation range does not guarantee the use with normal air flow capacity.
- *4 Select the model in accordance with Model Selection (pages 5, 6) for models beyond the rated specifications.
- *5 When selecting a power supply voltage, refer to the How to Order on page 19.
- *6 These values are reference values under rated conditions, and are not guaranteed. Do not use these values for the thermal set values, etc.
- *7 Product other than the Option R is not equipped with an earth leakage breaker. Purchase an appropriate earth leakage breaker separately.
- *8 JIS 10K FF is used as a flange.

Construction (Air/Refrigerant Circuit)



High temperature humid air from the air compressor passes through the air re-heater ① and is pre-cooled by dehumidified cool air. Then, it is cooled to the specified temperature by the air cooler ② using the evaporation heat of refrigerant.

At this time, the oil mist and moisture generated by condensation are automatically exhausted by the auto drain ③. The cooled and dehumidified air goes back to the air re-heater ① and heat is exchanged with hot air that flows into the air re-heater. It is supplied as dry warm air without "sweating" in the piping system.

Compressed air inlet Compressed air outlet

Volume control valve

Temperature expansion valve

Condensed pressure gauge

High pressure switch

Automatic water supply valve

Water-cooled condenser

Evaporation thermometer

Temperature expansion valve

Automatic water supply valve

Water-cooled condenser

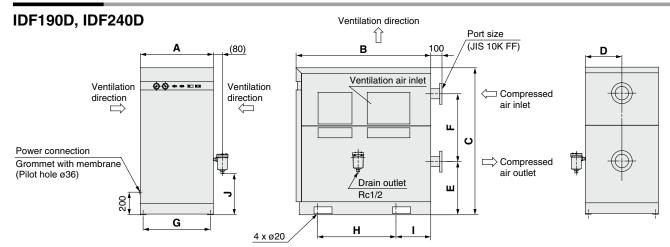
3 Motor type auto drain

Model Selection

Refrigerant R134a (HFC) IDF⊟E

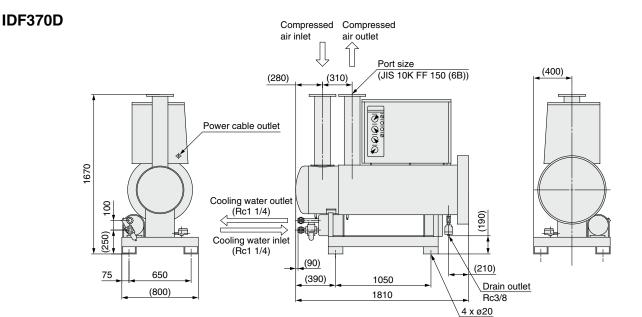
IDF □ D Series

Dimensions



											[mm]
Model	Inlet and outlet port	Α	В	С	D	E	F	G	Н	I	J
IDF190D	. , ,		1510	1320	375	480	600	700	800	355	427
IDF240D			1550	1640	385	703	730	700	800	355	592

^{*} The auto drain is enclosed in the same shipping package as the main body. Customers are required to mount the auto drain to the air dryer.



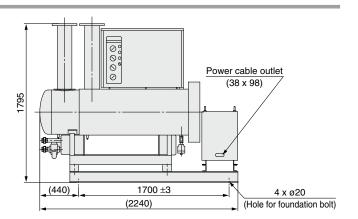
Power Transformer Integrated Type

IDF370D

The power transformer marked with the voltage symbol "9" is integrated into the refrigerated air dryer.

IDF190D to 240D

The power transformer marked with the voltage symbol "9" is built into the main body, and the outside dimensions are the same as those with the voltage symbol "3."



Specific Product Precautions

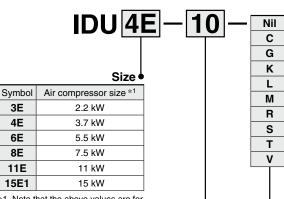
Refrigerant R134a (HFC)
High Inlet Air Temperature

IDU E Series

3E, 4E, 6E, 8E, 11E, 15E1

(Inlet air temperature: 55°C, Outlet air pressure dew point: 10°C)

How to Order



*1 Note that the above values are for reference only. Check the actual compressor capacity.

Voltage •

Symbol	Voltago	Applicable size							
Symbol	nbol Voltage		4E	6E	8E	11E	15E1		
10	Single-phase 100 VAC (50 Hz) 100/110 VAC (60 Hz)	•	•	•	•	•	•		
20	Single-phase 200 VAC (50 Hz) 200/220 VAC (60 Hz)	•	•	•	•	•	•		
23	Single-phase 230 VAC (50 Hz)	•	•	•	•	•	•		

Options •

Symbol *1	Nil	С	G	K	L	M	R	S	Т	V
Description	None	Anti-corrosive treatment for copper tube	With Chinese labels and a Chinese operation manual	Moderate pressure specification *2 (Auto drain bowl: Metal bowl with level gauge)	With a heavy-duty auto drain (applicable to moderate pressure)	With a motor type auto drain (Voltage symbol 10, 20 only)	With an earth leakage breaker	i (voitage symbol	block for power supply, operating,	With a timer controlled solenoid valve type auto drain (Voltage symbol 23 only) (applicable to moderate pressure)
3E	•	•	•	•	•	•	•	•	•	•
4E	•	•	•	•	•	•	•	•	● *4	•
6E	•	•	•	•	•	•	•	•	● *4	•
8E	•	•	•	•	•	•	•	•	● *4	•
11E	•	•	•	•	•	•	•	•	● *4	•
15E1	•	•	•	•	•	•	•	•	● *4	•

*1 When multiple options are combined, indicate symbols in alphabetical order.

However, the following combinations are not possible. R and S (Because S function is also included in R.)

H and S (Because S function is also included in H.)
 S and T (Because S function is also included in T.)

• The combination of K, L, M and V is not possible because an auto drain can only be attached to a single option.

*2 The maximum operating pressure is 1.6 MPa.

*3 Voltage symbol 20 (200 VAC) and 23 (230 VAC) are the terminal block connection as standard. The Option S cannot be chosen.

Voltage symbol 10 (100 VAC) is the power cable with plug as standard.

*4 To users who are considering switching from the previous air dryer:

When switching from the previous air dryer and remote operation are required, select the Made to Order (IDU□E-□-X256) product.

 $\ast\,$ Refer to pages 28 to 32 for further information on options.

IDU □ E Series



Symbol Refrigerated air dryer Auto drain

Standard Specifications

		_		Model			High inlet air	temperature					
	ecifications				IDU3E	IDU4E	IDU6E	IDU8E	IDU11E	IDU15E1			
range *3	Fluid						Compre	ssed air					
Tan C	Inlet air tem	pe	rature	[°C]			5 to	80					
Operating	Inlet air pre	ssu	ire	[MPa]			0.15	to 1.0					
e O	Ambient temp	era	ture (Humic	lity) [°C]		2 to 40	(Relative hu	midity 85% c	r less)				
	Air flow		dard condition	50 Hz	0.32	0.52	0.75	1.1	1.5	2.6			
4		(ANF	?) *1	60 Hz	0.37	0.57	0.82	1.2	1.7	2.8			
			pressor intake	50 Hz	0.34	0.55	0.8	1.2	1.6	2.8			
2			lition *2	60 Hz	0.39	0.61	0.87	1.3	1.8	3.0			
ΙĒ	Inlet air pre			[MPa]			0.	-					
Ĕ	Inlet air tem	•		[°C]			5						
	Ambient ter			[°C]			3						
Rated	Outlet air pres	ssu	re dew poin	t [°C]			1	0					
Ra	Power supp (Frequency				Sing	Single-phase: 100 VAC (50 Hz), 100/110 VAC (60 Hz) *5 Single-phase: 200 VAC (50 Hz), 200/220 VAC (60 Hz) Single-phase: 230 VAC ±10% (50 Hz)							
Suc	Power consumption 50/60 Hz *6 Operating current	[W]	Single-phase		180/202	208/236	385/440	250/290 ^{*7}	425/470 ^{*7}	460/530 ^{*7}			
tric	50/60 Hz *6		Single-phase 23		210	220	400	260	425	450			
eific	Operating		100	v `	2.4/2.5	3.0/3.1	5.7/5.7	3.4/3.5	5.7/6.0	4.6/4.9			
E e	current	[A]	200	V	1.2/1.3	1.5/1.5	3.4/3.0	1.7/1.7	3.5/3.2	3.6/3.4			
	50/60 Hz *6		230 V (5	0 Hz)	1.5	1.6	2.9	1.7	3.0	3.2			
ca (Se	plicable earth pacity *8 nsitivity of leak		Ū	[A]		10 (100 VAC	C), 5 (200 VA			10 (100 VAC) 10 (200 VAC)			
Re	frigerant						R134a						
			Single-phase		0.2	0.25	0.26	0.28	0.29	0.35			
Ref	rigerant charge	[kg]	Single-phas	se 200 V	0.2	0.25	0.26	0.28	0.29	0.35			
			Single-phas	se 230 V	0.23	0.27	0.29	0.28	0.29	0.35			
	to drain						Float type (No	ormally open)				
_	rt size				Rc3/8	Rc1/2		Rc3/4		Rc1			
	eight			[kg]	23	27	28	44	47	71			
	plicable air cor eference) For s			^{It} [kW]	2.2	3.7	5.5	7.5	11	15			

- *1 Air flow capacity under the standard condition (ANR) [20°C, Atmospheric pressure, and 65% Relative humidity]
- *2 Air flow capacity converted by the compressor intake condition [32°C, Atmospheric pressure, and 75% Relative humidity]
- *3 The operation range does not guarantee the use with normal air flow capacity.
- *4 Select the model in accordance with Model Selection (pages 5, 6) for models beyond the rated specifications.
- *5 When selecting a power supply voltage, refer to the How to Order on page 22.
- *6 These values are reference values under rated conditions, and are not guaranteed. Do not use these values for the thermal set values, etc.
- *7 For the IDU8E or larger models, cooling with the aftercooler helps save energy.
 *8 Product other than the Option R is not equipped with an earth leakage breaker. Purchase an appropriate earth leakage breaker separately. Replacement Parts

Model		IDU3E	IDU4E	IDU6E	IDU8E	IDU11E	IDU15E1
Auto drain replacement parts no. *9	New			Α	D48-A		
Auto drain replacement parts no. *9	Previous				AD48		

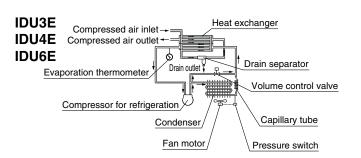
*9 The part number for the auto drain (Bowl assembly) components only excluding the body part. Body part replacement is not possible.

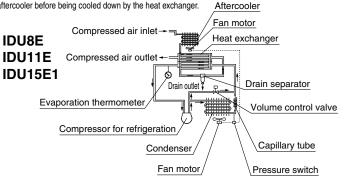
In addition, a new line of auto drain models was recently introduced in March 2019. The previous models and the new models do not have mounting interchangeability. For details, refer to page



Construction (Air/Refrigerant Circuit)

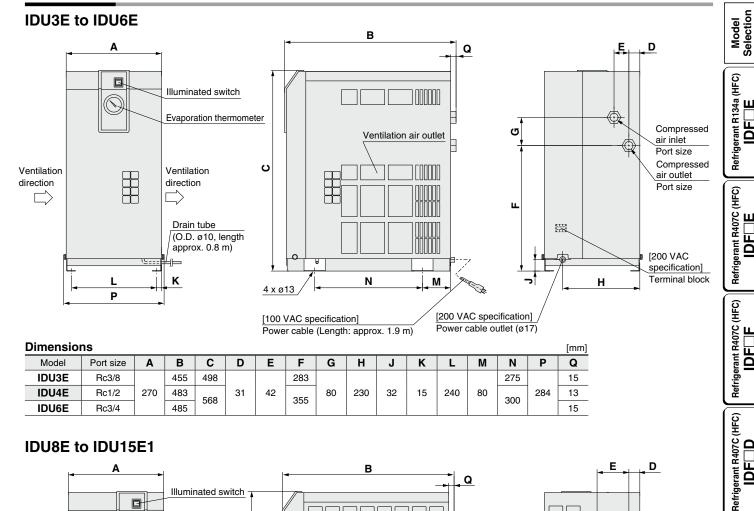
Humid, hot air coming into the air dryer will be cooled down by a heat exchanger. Water condensed at this time will be removed from the air by a drain separator and drained out automatically. Air separated from the water will be heated by a heat exchanger to obtain the dried air, which goes through to the outlet side. For models IDU8E to 15E1, the humid and hot air introduced to the air dryer will be cooled down by the aftercooler before being cooled down by the heat exchanger.





Refrigerated Air Dryer IDU E Series

Dimensions



IDU8E to IDU15E1

IDU15E1

Rc1

300

620

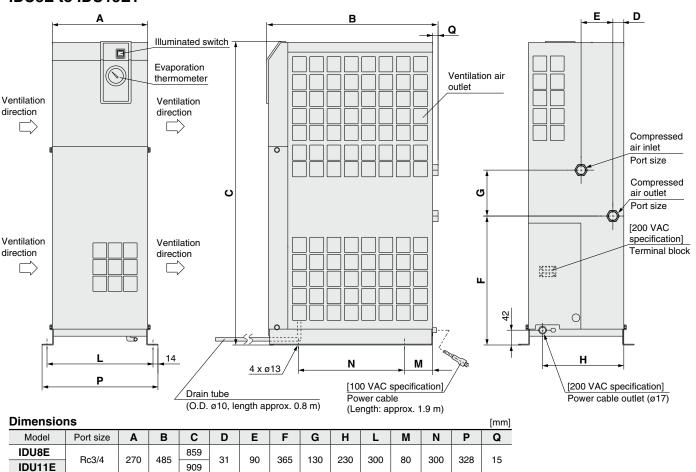
960

79

54

425

93



330

470

358

16

258

(HFC)

Refrigerant R407C (HFC) IDU□E

Options

Optional Accessories

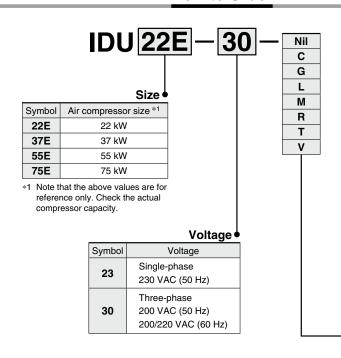
Specific Product Precautions

Refrigerant R407C (HFC) High Inlet Air Temperature IDU E Series

22E, 37E, 55E, 75E

(Inlet air temperature: 55°C, Outlet air pressure dew point: 10°C)

How to Order



Options

Symbol *1	Nil	С	G	L	M	R	Т	V
Description	None	Anti-corrosive treatment for copper tube	a Chinese	With a heavy-duty auto drain (applicable to moderate pressure *2)	With a motor type auto drain (Voltage symbol 30 only)	With an earth leakage breaker	With a terminal block for power supply, operating, and error signals *3	With a timer controlled solenoid valve type auto drain (Voltage symbol 23 only) (applicable to moderate pressure *2)
22E	•	•	•	•	•	•	•	•
37E	37E		•	•	•	•	•	
55E			•	•	•	•	•	•
75E	75E		•	•	•	•	•	•

^{*1} When multiple options are combined, indicate symbols in alphabetical order.

However, the following combinations are not possible

When switching from the previous air dryer and remote operation are required, select the Made to Order (IDU \Box E- \Box -X256) product.

* Refer to pages 28 to 32 for further information on options.



[·] The combination of L, M and V is not possible because an auto drain can only be attached to a single option.

^{*2} The maximum operating pressure is 1.6 MPa

 $[{]st 3}\,$ To users who are considering switching from the previous air dryer:

Standard Specifications



Symbol	
Refrigerated air dryer Auto drain	⊳

			Model		High inlet air	temperature					
Sp	ecifications			IDU22E	IDU37E	IDU55E	IDU75E				
क ⊗	Fluid				Compressed air						
Operating range *3	Inlet air tem	perature	[°C]		5 to	80					
aji.	Inlet air pre	ssure	[MPa]		0.15	to 1.0					
흥	Ambient temp	erature (Humidi	ity) [°C]		2 to 40 (Relative hu	midity 85% or less)					
	Air flow	Standard condition	50 Hz	3.9	5.7	8.4	11.0				
	capacity	(ANR) *1	60 Hz	4.3	6.1	9.8	12.5				
*	[m³/min]	Compressor intake	50 Hz	4.1	6.1	8.9	11.7				
conditions	-	condition *2	60 Hz	4.6	6.5	10.4	13.3				
≝	Inlet air pre	ssure	[MPa]		0.	.7					
Š	Inlet air tem	perature	[°C]		5	5					
	Ambient ter	mperature	[°C]		3	2					
Rated	Outlet air pre	ssure dew point	[°C]	10							
æ	Power supp (Frequency)			Single-phase: 230 Three-phase: 200 Three-phase: 200	` ,	·)				
Electric specifications	Power consumption	Three-phase	200 V	1100	1570/2050	2200/2850					
뜷	50/60 Hz *5	Single-phase 230	V (50 Hz)	96	60	1570 6.7/7.3	2300				
픮	Operating current	Three-phase	200 V	4.2	/4.8		8.2/9.3				
sbe	50/60 Hz *5	Single-phase 230	V (50 Hz)	4	.3	6.9	10.7				
	icable earth leakage	Three-phase	200 V		10		15				
(Sensit	ker capacity *6 [tivity of leak current of 30 mA)	A] Single-phase 230	V (50 Hz)		10		20				
_	frigerant				R407C	(HFC)					
		Three-phase	200 V	0.47	0.83	0.55	0.745				
Het	rigerant charge [I	Single-phase	e 230 V	0.45	0.76	0.55	0.745				
Αu	ıto drain				Float type (No	ormally open)					
Ро	Port size			R1	R1 1/2	R	R2				
We	eight		[kg]	90	130	160	166				
	plicable air co eference) For s	mpressor outpu crew type	t [kW]	22	37	55	75				

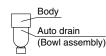
- *1 Air flow capacity under the standard condition (ANR) [20°C, Atmospheric pressure, and 65% Relative humidity]
- *2 Air flow capacity converted by the compressor intake condition [32°C, Atmospheric pressure, and 75% Relative humidity]
- *3 The operation range does not guarantee the use with normal air flow capacity.
- *4 Select the model in accordance with Model Selection (pages 5, 6) for models beyond the rated specifications.
 *5 These values are reference values under rated conditions, and are not guaranteed. Do not use these values for the thermal set
- *6 Product other than the Option R is not equipped with an earth leakage breaker. Purchase an appropriate earth leakage breaker

Replacement Parts

Model		IDU22E	IDU37E	IDU55E	IDU75E
Auto drain replacement parts no *7	New		AD4	18-A	
Auto drain replacement parts no. *	Previous		AD)48	

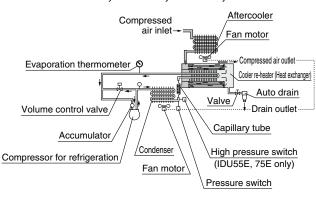
*7 The part number for the auto drain (Bowl assembly) components only excluding the body part. Body part replacement is not possible.

In addition, a new line of auto drain models was recently introduced in either March or June 2019. The previous models and the new models do not have mounting interchangeability. For details, refer to page 43-1.



Construction (Air/Refrigerant Circuit)

IDU22E, IDU37E, IDU55E, IDU75E



Humid, hot air coming into the air dryer will be cooled down by a heat exchanger. Water condensed at this time will be removed from the air by a drain separator and drained out automatically. Air separated from the water will be heated by a heat exchanger to obtain the dried air, which goes through to the outlet side

Model Selection

Refrigerant R134a (HFC)

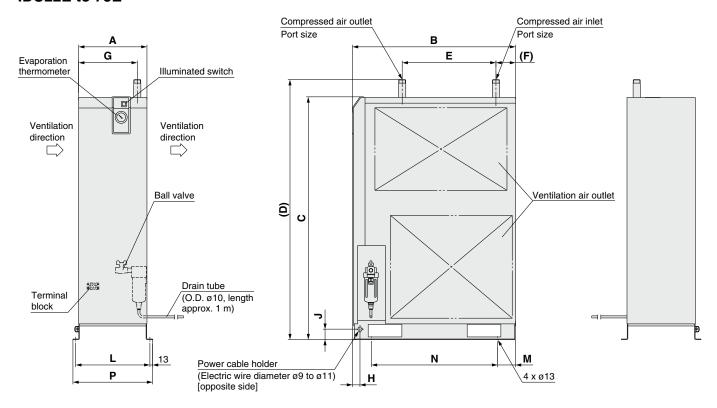
Precautions



IDU □ E Series

Dimensions

IDU22E to 75E



Dimensions [mm														[mm]
Model	Port size	Α	В	С	D	E	F	G	Н	J	L	M	N	Р
IDU22E	R1	325	775	1153	1235	445	93	279	46		353	85	600	379
IDU37E	R1 1/2	360		1258	1350	550	64	290	46	50	388	00	680	414
IDU55E	R2	470	855	1345	1440	530	53	360	30		500	75	700	526
IDU75E	H∠	470	ĺ	1/180	1575	530	53	300	30	70	500	/5	700	526

Refer to "How to Order" on pages 7, 11, 14, 19, 22, 25 for optional models.

A Option symbol

Cool compressed air output

IDF1E to 75E

Cool outlet air (10°C) can be supplied.

The air flow with this option is smaller than that of the standard air dryer. (Refer to the table below.)

If the air dryer is used out of the scope of the rated specifications or conditions, select a model according to pages 5 and 6 and apply the air flow capacity shown in the tables below to the data ©.

- *1 Perform thermal insulation treatment for pipings and equipment installed after the dryer to prevent the formation of condensation.
- *2 The Option A cannot be used for the IDF100F to 370D and the IDU series due to the construction of the heat exchanger unit.

Air Flow Capacity

Model		IDF1E	IDF2E	IDF3E	IDF4E	IDF6E	IDF8E	IDF11E	IDF15E1	IDF22E	IDF37E	IDF55E	IDF75E
Air flow capacity	50 Hz	0.085	0.12	0.18	0.26	0.32	0.5	0.65	1.2	1.7	2.6	3.85	5.35
[m³/min (ANR)]	60 Hz	0.1	0.14	0.21	0.29	0.375	0.55	0.75	1.3	1.9	3.05	4.5	6.2

(Rated conditions): Inlet air pressure: 0.7 MPa, Inlet air temperature: 35°C (IDF1E to 37E), 40°C (IDF55E, 75E), Outlet air temperature: 10°C

C

Option symbol

Anti-corrosive treatment for copper tube

IDF, IDU all models

This minimizes the corrosion of the copper and copper alloy parts when the air dryer is used in an atmosphere containing hydrogen sulfide or sulfurous acid gas. (Corrosion cannot be completely prevented.)

Special epoxy coating: Copper tube and copper alloy parts. The coating is not applied on the heat exchanger or around electrical parts, where operation may be affected by the coating.

* Corrosion is not covered under warranty



Option symbol

With Chinese labels and a Chinese operation manual

IDF1E to 75E, IDU3E to 75E

In addition, Chinese labels are put on the external panels.

A Chinese operation manual is also included.



Option symbol

. , ,

Moderate pressure specification (Auto drain bowl: Metal bowl with level gauge)

IDF6E to 37E, IDU3E to 15E1

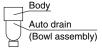
The maximum operating pressure is 1.6 MPa.

The auto drain is changed from the standard to the moderate pressure specification.

A metal bowl with a level gauge which can confirm the water level is used for the auto drain.

Specifications

- 1. Maximum operating pressure: 1.6 MPa
- 2. Dimensions \cdots same as standard products



Replacement Parts

Model	Auto drain replacement parts no.	Note		
IDF6E to 15E1 IDU3E to 15E1	IDF-S1926	The AD48-8-A-X2112 auto drain (bowl assembly) excluding the body, One-touch fitting: KQ2H10-02AS, and insulator		
IDF22E, 37E	AD48-8-A-X2112	Single auto drain unit (Bowl assembly)		

^{*} A new line of auto drain models was recently introduced in March 2019. The previous models and the new models do not have mounting interchangeability. For details, refer to page 43-1.

Model Selection

Refrigerant R134a (HFC) IDF⊟E

Refrigerant R407C (HFC)

Refrigerant R407C (HFC) IDF□F

Refrigerant R407C (HFC)

Refrigerant R134a (HFC) IDII□E

Specific Product Precautions



IDF/IDU Series

Moderate

Moderate pressure specification

IDF100F to 150F

The maximum operating pressure is 1.6 MPa.

The internal drain piping is changed from the nylon tube to the metal.

Specifications

- 1. Maximum operating pressure: 1.6 MPa
- 2. Dimensions \cdots same as standard products

Option symbol

With a heavy-duty auto drain (applicable to moderate pressure)

IDF4E to 75E, IDF370D, IDU3E to 15E1, IDU22E to 75E

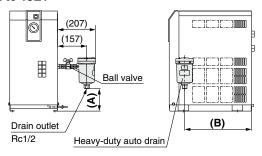
Drainage including dust can also be exhausted.

The float type auto drain used in the standard air dryer is replaced with a heavy-duty auto drain (ADH4000-04).

* The IDF100F to 150F, 190D, 240D standard types are equipped with a heavy-duty auto drain.

Max. operating pressure: 1.6 MPa

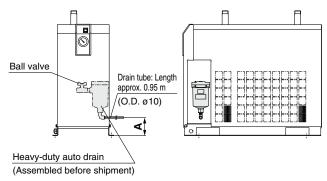
IDF4E to 15E1 IDU3E to 15E1



- * The heavy-duty auto drain and the ball valve are both enclosed in the same shipping package as the main body of the air dryer. Customers are required to mount the parts to the air dryer.
- * Customers will need to supply the fitting (KQ2L10-04AS) and tubing (TU1065BU) for the drain piping.

Dimensions		[mm]
Model	Α	В
IDF4E	55	348
IDF6E, IDU3E	67	340
IDF8E, IDF11E	139	
IDU4E, IDU6E	139	378
IDU8E, IDU11E	149	
IDF15E1	47	494
IDU15E1	47	533

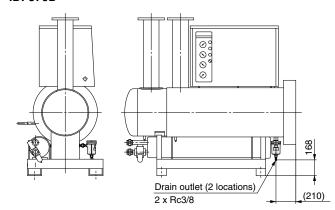
IDF22E to 75E, IDU22E to 75E



Dimensions	[mm]
Model	A
IDF22E, 37E IDU22E, 37E	Approx. 100
IDF55E, 75E IDU55E	Approx. 120
IDU75E	Approx. 250

Max. operating pressure: 0.97 MPa

IDF370D



Replacement Parts: Heavy-Duty Auto Drain

Model	Part no. (Description)	Configuration
IDF4E to 15E1 IDU3E to 15E1 IDF370D	ADH4000-04 (Heavy-duty auto drain)	Heavy-duty auto drain
IDF22E to 75E	ADH-E400 (Exhaust mechanism	Exhaust mechanism replacement kit
IDU22E to 75E	replacement kit)	Housing (Use existing equipment.)



IDF3E to 75E

IDF4E to 75E, 190D, 240D

Option symbol

With a motor type auto drain

The float type auto drain used in the standard air dryer is replaced with a motor type auto drain (ADM200).

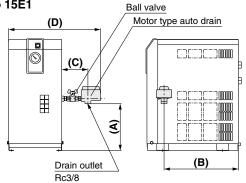
* The IDF370D standard type is equipped with a motor type auto drain.

Air Discharge

Operating air pressure	Air discharge without drainage
0.3 MPa	0.006 m ³ per cycle (ANR)
0.5 MPa	0.010 m ³ per cycle (ANR)
0.7 MPa	0.014 m ³ per cycle (ANR)

The motor type auto drain actuates for 2 seconds per cycle. The operating cycle is as follows. IDF4E to 75E, IDU3E to 37E: Once per minute, IDU55E, 75E: Twice per minute, IDF190D to 370D: 4 times per minute.

IDF4E to 15E1 IDU3E to 15E1

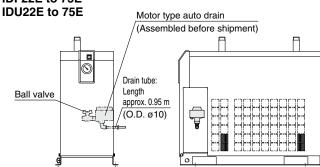


_							
Di	m	_	n	•	10	'n	

Dimensions				[mm]	
Model	Α	В	С	D	
IDF4E	154	040			
IDF6E, IDU3E	166	348		474	
IDF8E, 11E	238		133	4/4	
IDU4E, 6E	230	378			
IDU8E, 11E	248			496	
IDF15E1	149	494	146	510	
IDU15E1	150	533	137	530	

- * The motor type auto drain and the ball valve are both enclosed in the same shipping package as the main body of the air dryer. Customers are required to mount the auto drain to the air dryer.
- Customers will need to supply the fitting (KQ2L10-03AS) and tubing (TU1065BU) for the drain piping.

IDF22E to 75E



When a longer drain tube than the one attached is necessary, remove and replace it with a tube prepared by customers. (After connection with a fitting, the drain may not flow due to a drop in pressure

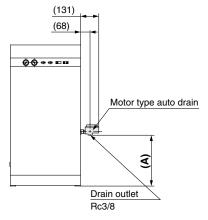
caused by the fitting.)

Option symbol With a metal name plate

IDF100F to 150F

The label identifying the model and specifications of the product is changed to a metal plate which has better endurance.

IDF190D, 240D



* The motor type auto drain is enclosed in the same shipping package as the main body of the air dryer. Customers are required to mount the auto drain to the air dryer.

Dimensions	[mm]
Model	Α
IDF190D	526
IDF240D	565

Replacement Parts: Motor Type Auto Drain Assembly *1

		-
Model	Part no.	Note
IDF4E to 15E1-10 IDU3E to 15E1-10	IDF-S0087	Assembly of Motor type auto drain: ADM200-041, Plug housing assembly: 173090-2, Receptacle: 173707-1, Rubber plug: 172888-2
IDF4E to 37E-20 IDF22E to 75E-30 IDU3E to 15E1-20 IDU22E, 37E-30	IDF-S0090	Assembly of Motor type auto drain: ADM200-042, Plug housing assembly: 173090-2, Receptacle: 173707-1, Rubber plug: 172888-2
IDU55E, 75E	IDF-S0510	Assembly of Motor type auto drain: ADM200-042-4, Plug housing assembly: 173090-2, Receptacle: 173707-1, Rubber plug: 172888-2
IDF190D, 240D	IDF-S0511	Assembly of Motor type auto drain: ADM200-042-8, Plug housing assembly: 173090-2, Receptacle: 173707-1, Rubber plug: 172888-2

*1 Including electric wire with connector on the end

IDF/IDU Series

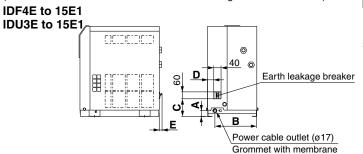


With an earth leakage breaker

Except IDF1E, 2E, 3E

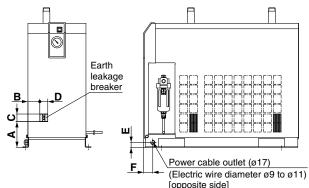
The air dryer is equipped with an earth leakage breaker, reducing the electrical wiring required during installation.

(The IDF370D does not include the electrical leakage detection function.)



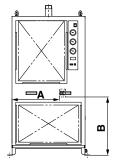
Dimensions [mm]								
Model	Α	В	С	D	E			
IDF4E, 6E, 8E, 11E	32	230	97	34	15			
IDF15E1	43	258	102	82	_			
IDU3E, 4E, 6E	32		97	34	15			
IDU8E	42	230	100	37				
IDU11E	42		100	75	_			
IDU15E1	43	258	102	82				

IDF22E to 75E IDU22E to 75E



			oggol	site side]				
Dimensions						[mm]		
Model	Α	В	С	D	E	F		
IDF22E-20		59		40				
IDF37E-20	125	59		40	25	46		
IDF22E-30		39 81	20	60		25	46	
IDF37E-30			60	60				
IDF55E-30	148					60	50	36
IDF75E-30	133	73			30	30		
IDU22E-30	151	74				46		
IDU37E-30	146	122		60	60	60	50	46
IDU55E-30	148	55		00		36		
IDU75E-30	166	73			70	30		

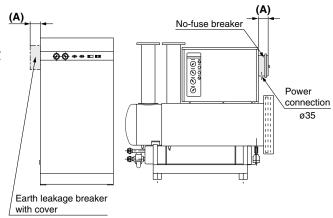
IDF100F to 150F



Dimensions		[mm]
Model	Α	В
IDF100F	434	535
IDF125F	448	333
IDF150F	628	537

IDF190D, 240D

IDF370D



Dimensions	[mm]
Model	Α
IDF190D	95
IDF240D	95
IDF370D	156

Breaker Capacity and Sensitivity of Leak Current

Voltage	Model	Breaker capacity	Sensitivity of leak current
100 V	IDF4E-10, IDF6E-10 IDF8E-10, IDF11E-10, IDF15E1-10	10 A	
type	IDU3E-10, IDU4E-10, IDU6E-10 IDU8E-10, IDU11E-10, IDU15E1-10	10 A	
	IDF4E-20, IDF6E-20 IDF8E-20, IDF11E-20	5 A	
	IDU3E-20, IDU4E-20 IDU6E-20, IDU8E-20, IDU11E-20	J A	
200 V type	IDF15E1-20, IDF22E-20, IDF37E-20 IDU15E1-20 IDF22E-30, IDF37E-30 IDF55E-30 IDU22E-30, IDU37E-30, IDU55E-30	10 A	30 mA
-71	IDF75E-30, IDU75E-30	15 A	
	IDF100F IDF125F IDF150F	30 A	
	IDF190D IDF240D	50 A	
	IDF370D		_



Specific Product Precautions

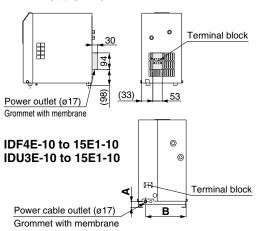
Option symbol

Power supply terminal block connection

IDF1E-10 to 15E1-10, IDU3E-10 to 15E1-10

The option allows the connection of a power cable to a terminal block. This option is supplied with the 200 V model as a standard accessory.

IDF1E-10 to 3E-10



Dimensions	[mm]	
Model	Α	В
IDF4E, 6E, 8E, 11E	32	230
IDF15E1	43	258
IDU3E, 4E, 6E	32	230
IDU8E, 11E	42	230
IDU15E1	43	258

П

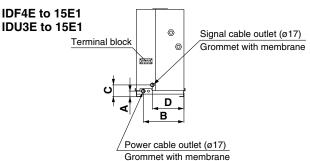
Option symbol

With a terminal block for power supply, operating, and error signals

IDF4E to 15E1, IDU3E to 15E1

In addition to power supply connection, entry of operating and error signals is available. (No-voltage contact)

Additionally, when using the remote operation, select the Made to Order (IDF8E to 15E1- \square -X256, IDU8E to 15E1- \square -X256) products.



Contact capacity: Operating signal ··· 220 VAC, 6 A Error signal ··· 250 VAC, 7 A

Minimum current value: 24 V, 5 mA (AC/DC) for operating and error signals

 Be sure to confirm the electric circuits with the drawings or Operation Manual before using the operating and error signals.

Dimensions [mr					
Model	Α	В	С	D	
IDF4E, 6E, 8E, 11E	32	230	67	179	
IDF15E1	43	258	77	158	
IDU3E, 4E, 6E	32	230	67	179	
IDU8E, 11E	42	230	77	136	
IDU15E1	43	258	77	158	

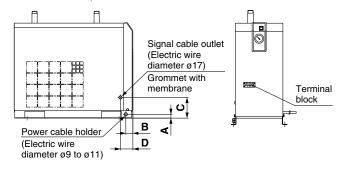
Option symbol

With a terminal block for power supply, operating, and error signals

IDF22E to 75E, IDU22E to 75E

In addition to power supply connection, entry of operating and error signals is available. (No-voltage contact) Additionally, when using the remote operation, select the Made to Order (IDF22E to 75E-□-X256, IDU22E to 75E-□-X256) products.

IDF22E to 75E, IDU22E to 75E



Contact capacity: Operating signal --- 220 VAC, 6 A Error signal --- 250 VAC, 7 A

Minimum current value: 20 V, 5 mA (AC/DC) for operating and error signals

Dimensions				[mm]
Model	Α	В	С	D
IDF22E, 37E	25	46 36	135	
IDF55E, 75E	50		207	
IDU22E, 37E	50	46	166	81
IDU55E	50	36	230	
IDU75E	70		242	



Option symbol

With a timer controlled solenoid valve type auto drain (applicable to moderate pressure)

IDU3E to 75E-23 IDF100F to 150F

Drainage is discharged by controlling a solenoid valve with a timer. A strainer for solenoid valve protection and a stop valve are also included. (The external dimensions are the same as the standard product.)

Maximum operating pressure: 1.6 MPa (IDF100F to 150F: 1.0 MPa)

* The timer controlled solenoid valve actuates once (for 0.5 seconds) every 30 seconds.

Ponlacoment Parts

ricpiacement i arts		
Model	Part no.	Note
IDU3E to 37E-23	IDF-S0198	230 VAC
IDU55E, 75E-23	IDF-S0302	230 VAC
IDF100F to 150F	IDF-S0405	200 VAC

IDF/IDU Series

Option symbol

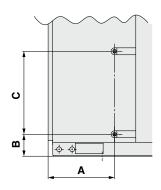
Water-cooled type IDF100F to 150F, 190D, 240D

It can be used in a high temperature environment without decreasing air flow capacity. It can also be used in an enclosed environment without increasing the ambient temperature. This option is supplied with the IDF370D as a standard accessory.

Model	IDF100F	IDF125F	IDF150F	IDF190D	IDF240D
Condenser	Р	Plate system Shell and coil syste		coil system	
Cooling water flow rate [m³/h] *1 50/60 Hz	1.29/1.56	1.74/1.98	2.16/2.52	4.8/4.8	5.4/5.4
Cooling tower performance [RT] *2	2	2.4	3	7.5	7.5
Water flow regulator	Pressure type automatic water supply valve			y valve	
Port size for water side	R1/2	R3/4	R1		

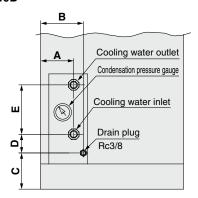
^{*1} Value with rated load when cooling water inlet temperature is 32°C.

IDF100F to 150F



Dimensions			[mm]
Model	Α	В	С
IDF100F	384	107	479
IDF125F, 150F	234	127	

IDF190D, 240D



Dimensions					[mm]
Model	Α	В	С	D	E
IDF190D, 240D	180	250	160	48	273

^{*2} Calculated at 1 RT = 3300 kcal/h

Optional Accessories

Specifications

Description	Features	Specifications	Applicable air dryer	Dimensions
Separately installed power transformer *1,2	Power supply and voltage for those other than the standard.	Max. ambient temperature 40°C (Relative humidity 85% or less)	IDF1E-10 to IDF15E1-10, IDF22E-20/30 IDF37E-20/30, IDF55E-30, IDF75E-30 IDU3E-10 to 15E1-10, IDU22E to 75E-30 IDF100F to 150F, IDF190D to 370D-3	p. 36, 37
Dedicated base for separately installed power transformer *2 Separately installed power transformer or transformer is not attached. Order separately.	For integrating the separately installed power transformer and the air dryer.	_	IDF4E to 15E1-10 IDF22E-20/30, IDF37E-20/30 IDF55E-30, IDF75E-30 IDU3E to 15E1-10	p. 38
Dust-protecting filter set *3	For preventing a decline in the performance of air dryers, even in a dusty atmosphere.	Max. ambient temperature 40°C	IDF1E to 75E IDF190D to 240D IDU3E to 75E	p. 39
Bypass piping set	Easy bypass piping (connect this set to	Max. operating pressure *4 1.0 MPa	IDF1E to 75E	
	the air dryer), allowing substantial reduction in the installation time.	Max. operating temperature IDF: 60°C IDU: 80°C	IDU3E to 75E	p. 40, 41
Foundation bolt set	For fixing the air dryer to the foundations. Easy to secure by striking the axle.	Stainless steel	IDF4E to 75E IDU3E to 75E IDF100F to 150F	p. 41
Piping adapter	For converting the thread type of an IN/OUT fitting for air dryers.	Brass	IDF1E to 75E IDU3E to 75E IDF100F to 150F	p. 41
Mounting base adapter	For ensuring conversion to the former models' (IDF22C and 37C) air piping.	_	IDF22E, 37E	
Conversion piping set	[When bypass piping is already in place] For ensuring conversion to the former models' (IDF6D to 15C) air piping.	Max. operating pressure *4 1.0 MPa Max. operating temperature 60°C	IDF6E to 15E1	p. 42
Conversion bypass piping set	[When there is no bypass piping] For ensuring conversion to the former models' (IDF6D to 15C) air piping.	Max. operating pressure *4 1.0 MPa Max. operating temperature 60°C	IDF6E to 15E1	p. 43

- *1 When using a power transformer for the IDF1E to 15E1 and IDU3E to 15E1, select the air dryer of 100 V.
- *2 When using a power transformer for the IDF190D and 240D, built-in transformer type is also available. (Refer to the How to Order on page 19.)
- *3 This filter set is supplied with the IDF100F to 150F as a standard accessory.

 *4 Not applicable to the moderate pressure specification. Prepare a bypass, conversion or conversion bypass piping set suitable for the specification.

How to Order

[Separately installed power transformer]

Single-phase type

Capa	Capacity •				
Symbol	Applicable air dryer	Capacity			
500	IDF1E-10 to IDF8E-10 IDU3E-10, IDU4E-10, IDU8E-10	500 VA			
1000	IDF11E-10, IDF15E1-10 IDU6E-10, IDU11E-10, IDU15E1-10	1 kVA			
2000	IDF22E-20, IDF37E-20	2 kVA			

							
	● Power supply voltage						
	Symbol Inlet voltage Outlet voltage						
	1	110 VAC (50 Hz) 110 to 120 VAC (60 Hz)					
	2	200, 220, 230, 240 VAC (50 Hz) 200 to 260 VAC (60 Hz)	100 VAC (50 Hz) 100, 110 VAC	Single-			
	3	380, 400, 415 VAC (50 Hz) 380 to 420 VAC (60 Hz)	(60 Hz)	phase			
``\	4	420, 440, 480 VAC (50 Hz) 420 to 520 VAC (60 Hz)					
· · · · · · · · · · · · · · · · · · ·	9	220 VAC (50 Hz) 220 to 240 VAC (60 Hz)	200 VAC (50 Hz)				
\ \ \ \	10	380, 400, 415 VAC (50 Hz) 380 to 400, 400 to 415, 415 to 440 VAC (60 Hz)	200, 220 VAĆ	Single- phase			
``,	11	440, 460 VAC (50 Hz) 440 to 460, 460 to 500 VAC (60 Hz)	(60 HZ)				
``	11	440, 460 VAC (50 Hz)	(60 Hz)	prias			

^{*} Refer to pages 36 and 37 for dimensions.

Three-phase type IDF — TR 1700

Capacity •			
Symbol			
1700	IDF22E-30, IDF37E-30 IDU22E-30, IDU37E-30	1.7 kVA	
4000	IDF55E-30, IDF75E-30 IDU55E-30, IDU75E-30	4 kVA	
7000 IDF100F 7 kVA		7 kVA	
9000 IDF125F, 150F 9 kVA			
14000	IDF190D, 240D	14 kVA	
18000	IDF370D	18 kVA	

 Symbol	Inlet voltage	Outlet voltage	Type
 5	220 VAC (50 Hz) 220 to 240 VAC (60 Hz)	200 VAC (50 Hz)	
6	380, 400, 415 VAC (50 Hz) 380 to 440 VAC (60 Hz)	200, 220 VAĆ	Three-
 7	440, 460 VAC (50 Hz) 440 to 500 VAC (60 Hz)	(60 Hz)	phase
8	220, 240, 380, 400, 415, 440 VAC (50/60 Hz)	200 VAC (50/60 Hz)] [

^{*} Refer to page 37 for dimensions.

Power supply voltage

Model Selection

Refrigerant R134a (HFC) IDF□E

IDF/IDU Series

How to Order

[Dedicated base for separately installed power transformer]

IDF — TB 403 IDU — TB 407

	Size •
Symbol	Applicable air dryer
407	IDU8E, IDU11E
408	IDU15E1
410	IDU22E
411	IDU37E

Not available for the IDF1E to 3E, IDU55E, 75E, IDF100F to 150F, IDF190D, 240D, 370D. In the case of the Option S, the part number will be different. Please consult with SMC separately. Refer to page 38 for dimensions.

[Dust-protecting filter set]

IDF — FL 201

IDF — FL 190 D

IDU — FL 210

Applicable air dryer

Applicable all digel			
Symbol	Applicable air dryer		
200 *1	IDF1E, 2E		
201 *1	IDF3E		
202	IDF4E		
203	IDF6E, IDU3E		
204	IDF8E, IDU4E		
205	IDF11E, IDU6E		
206	IDF15E1		
207	IDF22E		
208	IDF37E		
213	IDF55E		
214	IDF75E		

Applicable air dryer

Symbol	Applicable air dryer
190	IDF190D
240	IDF240D

Applicable air dryer

Symbol	Applicable air dryer	
210	IDU8E	
211	IDU11E	
212	IDU15E1	
215	IDU22E	
216	IDU37E	
217	IDU55E	
218	IDU75E	

*1 This filter set is supplied with the IDF100F to 150F as a standard accessory. Refer to page 39 for dimensions.

[Bypass piping set (Rc, R thread)]

IDF — BP 302

IDU—BP 305

[Foundation bolt set]

Applicable air dryer

Applicable air dryer

Symbol	Applicable air dryer Thread ty	
300	300 IDF1E	
301	IDF2E	
302	IDF3E	Rc
303	IDF4E	nc nc
304	IDF6E to 11E	
316	IDF15E1	
317	IDF22E	
318	IDF37E	B
325	IDF55E	n
323	IDF75E	

 Not applicable to the moderate pressure specification (maximum operating pressure 1.6 MPa). Prepare a bypass piping set suitable for the specification by customers.

Applicable air dryer

Symbol	Applicable air dryer
305	IDU3E
306	IDU4E
307	IDU6E
320	IDU8E, IDU11E
322	IDU15E1
336	IDU22E
337	IDU37E
338	IDU55E, IDU75E

 Refer to pages 40 and 41 for bypass piping set dimensions.

Symbol	Applicable air dryer
500	IDF4E to 75E
500	IDU3E to 15E1
501	IDF100F to 150F
301	IDU22E to 75E

* Refer to page 41 for dimensions.

[Piping adapter]

IDF — AP 601

Applicable air dryer

Symbol		and port size	Amplicable six dures
Syllibol	Male thread A side	Female thread B side	Applicable air dryer
601	R1/2	NPT1/2	IDF4E, IDU4E
603	R3/4	NPT3/4	IDF6E to 11E, IDU6E to 11E
604	NPT1	Rc1	IDF22E, IDU22E
605	R1	NPT1	IDF15E1, IDU15E1
606	NPT1 1/2	Rc1 1/2	IDF37E, IDU37E
607	NPT2	Rc2	IDF100F to 150F
609	R3/8	NPT3/8	IDF1E to 3E, IDU3E

Refer to page 41 for dimensions.

[Mounting base adapter]

Applicable to the IDF22E and 37E.

Applicable to the IDI ZZE and of t		
Part no.	Applicable air dryer	
IDF-S0189	IDF22E	
IDF-S0147	IDF37E	

* Refer to page 42 for dimensions.

[Conversion piping set/ Conversion bypass piping set]

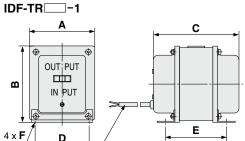
Applicable to the IDF6E to 15E1.

Select Conversion Piping Set when bypass piping is already in place, and Conversion Bypass Piping Set when there is no bypass piping.

Part no.		Applicable air dayor
Conversion piping set	Conversion bypass piping set	Applicable air dryer
IDF-S0186	IDF-S0183	IDF6E
IDF-S0203	IDF-S0202	IDF8E
IDF-S0187	IDF-S0184	IDF11E
IDF-S0188	IDF-S0185	IDF15E1

* Refer to pages 42 and 43 for dimensions.

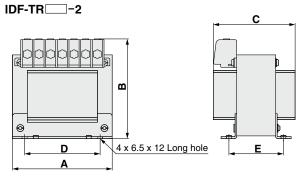




Input cable 2 m

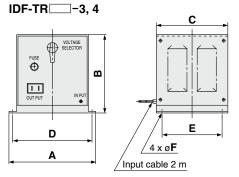
acifications/Dimensions

Specifications	Dimensions											[mm]
Part no.	Applicable air dryer	Capacity	Туре	Inlet voltage	Outlet voltage	A	В	С	D	E	F	Weight
IDF-TR500-1	IDF1E-10 to 8E-10 IDU3E-10, 4E-10, 8E-10	500 VA	Single- phase	110 VAC (50 Hz) 110 to	100 VAC (50 Hz) 100.	78	94	100	64	75	4.2 x 7 (Long hole)	1.5 kg
IDF-TR1000-1	IDF11E-10, 15E1-10 IDU6E-10, 11E-10, 15E1-10	1 kVA	Single- turn	120 VAC (60 Hz)	110 VAC (60 Hz)	104	122	134	75	114	4.2 x 9 (Long hole)	4 kg



Specifications/Dimensions

Specifications	/Dimensions										[mm]
Part no.	Applicable air dryer	Capacity	Туре	Inlet voltage	Outlet voltage	А	В	С	D	E	Weight
IDF-TR500-2	IDF1E-10 to 8E-10 IDU3E-10, 4E-10, 8E-10	500 VA	Single- phase	200, 220 230, 240 VAC	100 VAC	128	131	105	97	70	5.8 kg
IDF-TR1000-2	IDF11E-10, 15E1-10 IDU6E-10, 11E-10, 15E1-10	1 kVA	Single- turn	(50/60 Hz)	(50/60 Hz)	146	143	132	110	82	9 kg



Specifications,	/Dimensions											[mm]
Part no.	Applicable air dryer	Capacity	Туре	Inlet voltage	Outlet voltage	Α	В	С	D	E	F	Weight
IDF-TR500-3	IDF1E-10 to 8E-10 IDU3E-10, 4E-10, 8E-10	500 VA		380, 400, 415 VAC (50 Hz)								1 E ka
IDF-TR1000-3	IDF11E-10, 15E1-10 IDU6E-10, 11E-10, 15E1-10	1 kVA	Single- phase	380 to 420 VAC (60 Hz)	100 VAC (50 Hz)	000	207	100	210	160	9	15 kg
IDF-TR500-4	IDF1E-10 to 8E-10 IDU3E-10, 4E-10, 8E-10	500 VA	Single- turn	420, 440, 480 VAC (50 Hz)	110 VAC (60 Hz)	230	207	190	210	100	9	00 ka
IDF-TR1000-4	IDF11E-10, 15E1-10 IDU6E-10, 11E-10, 15E1-10	1 kVA		420 to 520 VAC (60 Hz)								22 kg

Model Selection

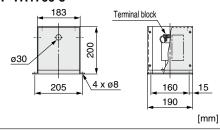
Refrigerant R134a (HFC)

Options

Specific Product Precautions

Specifications/Dimensions

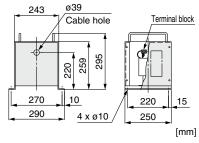
[Separately installed power transformer] IDF-TR1700-5



Specifications

Part no.	Applicable air dryer	Capacity	Туре	Inlet voltage	Outlet voltage	Weight
IDF-TR1700-5	IDF22E-30 IDF37E-30 IDU22E-30 IDU37E-30	1.7 kVA	Three- phase Single- turn	220 VAC (50 Hz) 220 to 240 VAC (60 Hz)	200 V (50 Hz) 200, 220 V (60 Hz)	9 kg

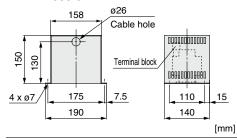
IDF-TR1700-6,7



Specifications

Part no.	Applicable air dryer	Capacity	Туре	Inlet voltage	Outlet voltage	Weight
IDF-TR1700-6	IDF22E-30 IDF37E-30	1.7 kVA	Three-phase	380, 400, 415 VAC (50 Hz) 380 to 400, 400 to 415, 415 to 440 VAC (60 Hz)	200 V (50 Hz)	18 kg
IDF-TR1700-7	IDU22E-30 IDU37E-30	1.7 KVA	Single- turn	440, 460 VAC (50 Hz) 440 to 460, 460 to 500 VAC (60 Hz)	200, 220 V (60 Hz)	16 kg

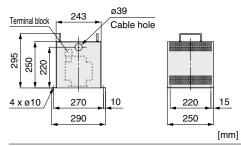
IDF-TR2000-9



Specifications

Part no.	Applicable air dryer	Capacity	Туре	Inlet voltage	Outlet voltage	Weight
IDF-TR2000-9	IDF22E-20 IDF37E-20	2 kVA	Single-phase Single-turn	220 VAC (50 Hz) 220 to 240 VAC (60 Hz)	200 VAC (50 Hz) 200, 220 VAC (60 Hz)	5 kg

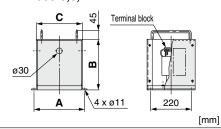
IDF-TR2000-10,11



Specifications

Part no.	Applicable air dryer	Capacity	Туре	Inlet voltage	Outlet voltage	Weight
IDF-TR2000-10	IDF22E-20 IDF37E-20	2 kVA	Single- phase Single-	380, 400, 415 VAC (50 Hz) 380 to 400, 400 to 415, 415 to 440 VAC (60 Hz)	200 VAC (50 Hz) 200, 220 VAC	20 kg
IDF-TR2000-11			turn	440, 460 VAC (50 Hz) 440 to 460, 460 to 500 VAC (60 Hz)	(60 Hz)	

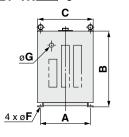
IDF-TR4000-5,6,7



Specifications/Dimensions

Part no.	Applicable air dryer	Capacity	Type	Inlet voltage	Outlet voltage	Α	В	С	Weight
IDF-TR4000-5				220 V (50 Hz) 220 to 240 V (60 Hz)	200 V (50 Hz) 200, 220 V (60 Hz)	275	259	240	14 kg
IDF-TR4000-6	IDF55E-30 IDF75E-30 IDU55E-30	4 kVA	Three- phase Single-	380, 400, 415 V (50 Hz) 380 to 400, 400 to 415, 415 to 440 V (60 Hz)	200 V (50 Hz) 200, 220 V (60 Hz)	355	299	320	35 kg
IDF-TR4000-7	IDU75E-30		turn	440, 460 V (50 Hz) 440 to 460, 460 to 500 V (60 Hz)	200 V (50 Hz) 200, 220 V (60 Hz)	355	299	320	42 kg

IDF-TR _____-8



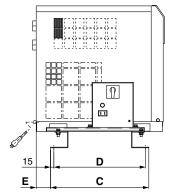


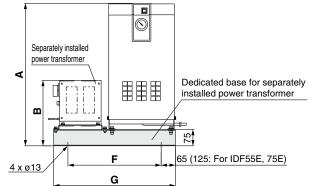
Specifications/Dimensions

Part no.	Applicable air dryer	Capacity	туре	Inlet voltage	Outlet voltage	Α	В	C	עו		г	G	vveignt
IDF-TR7000-8	IDF100F	7 kVA	Three-	220, 240,		360	540	400	260	300	11	30	94 kg
IDF-TR9000-8	IDF125F, 150F	9 kVA	phase	380, 400,	200 V	400	650	450	300	350	13	40	109 kg
IDF-TR14000-8	IDF190D, 240D	14 kVA	Double-	415,	(50/60 Hz)	400	650	450	300	350	13	40	152 kg
IDF-TR18000-8	IDF370D	18 kVA	turn	440 V (50/60 Hz)		400	650	450	300	350	13	40	179 kg

Dimensions

[Dedicated base for separately installed power transformer] IDF4E to 75E IDU3E to 37E





IDF-TB□/	Dimensions	<u> </u>					,			,	[mm]
Part no.	Applicable air dryer	Applicable transformer	Α	В	С	D	Е	F	G	Unit weight	Reference weight
	, ,	IDF-TR500-1		171						[kg]	(including air dryer and transformer) [kg] 29.5
		IDF-TR500-1		208							34
	IDF4E-10	IDF-TR500-2		200							43
		IDF-TR500-3		284							50
		IDF-TR500-4	573	171	345	315					30.5
	IDF6E-10	IDF-TR500-1		208							35.5
	IDF6E-10	IDF-TR500-2		200					85 515		44
	IDOSE-10	IDF-TR500-4		284							51
IDF-TB403		IDF-TR500-4		171			45	385		6	34.5
	IDF8E-10	IDF-TR500-2		208							39
	IDU4E-10	IDF-TR500-3		200							48
	1D04L-10	IDF-TR500-4		284							55
		IDF-TR1000-1	643	199	370	340					38
	IDF11E-10	IDF-TR1000-2		220							44
	IDU6E-10	IDF-TR1000-2			1						49
		IDF-TR1000-4	284								56
		IDF-TR1000-1		199		50 420	420 66				57
		IDF-TR1000-2		220	450						63
IDF-TB404	IDF15E1-10	IDF-TR1000-3	653					427	557	7	68
		IDF-TR1000-4		284							75
		IDF-TR1700-5		300							75
	IDF22E-30	IDF-TR1700-6, 7		352							84
IDF-TB405		IDF-TR2000-9		243	630	600				12	71
	IDF22E-20	IDF-TR2000-10, 11		343							86
		IDF-TR1700-5	773	300			70		805		84
	IDF37E-30	IDF-TR1700-6, 7		352							93
IDF-TB406	ID 50-5 00	IDF-TR2000-9		243	710	680				13	80
	IDF37E-20	IDF-TR2000-10, 11		343				675			95
		IDF-TR4000-5		397				1			129
	IDF55E-30	IDF-TR4000-6	943	407							150
IDE TO 400		IDF-TR4000-7		437	700	750			005	4-	157
IDF-TB409		IDF-TR4000-5		397	730	750	60		925	15	145
	IDF75E-30	IDF-TR4000-6	1043								166
		IDF-TR4000-7		437							173

IDU-TB□/I	Dimensions	6									[mm]
Part no.	Applicable air dryer	Applicable transformer	Α	В	С	D	E	F	G	Unit weight [kg]	Reference weight (including air dryer and transformer) [kg]
		IDF-TR500-1		171							51.5
	IDU8E-10	IDF-TR500-2	934	208							56
	IDU6E-10	IDF-TR500-3	934	284							65
IDU-TB407		IDF-TR500-4		204	370	340	45	475	605	6	72
100-16407		IDF-TR1000-1		199	370	340	45	4/5	605	0	57
ID	IDU11E-10	IDF-TR1000-2	984	220							63
	IDOTTE-10	IDF-TR1000-3	304	284							68
		IDF-TR1000-4		204							75
		IDF-TR1000-1		199							85
IDU-TB408	IDU15E1-10	IDF-TR1000-2	1035	220	540	510	31	487	617	10	91
100-10400	IDO ISE I-10	IDF-TR1000-3	1033	284	340	310	31	407	017	10	96
		IDF-TR1000-4		204							103
IDU-TB410	IDU22E-30	IDF-TR1700-5	1310	293	630	600		715	845	12	111
100-10410	100221-30	IDF-TR1700-6, 7	1310	352	030	000	70	713	040	12	120
IDU-TB411	IDU37E-30	IDF-TR1700-5	1425	293	710	680	70	750	880	13	152
100-16411	100376-30	IDF-TR1700-6, 7	1423	352	710	000		750	000	13	161

SMC

Model Selection

Refrigerant R134a (HFC) IDF□E

Refrigerant R407C (HFC)

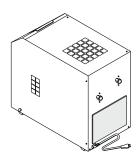
Refrigerant R407C (HFC) IDF□F

Refrigerant R407C (HFC)

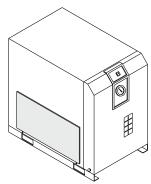
Refrigerant R134a (HFC) IDU□E

Dimensions

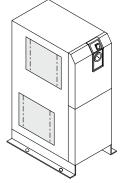
[Dust-protecting filter set]



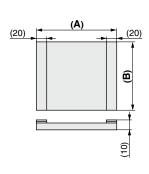




(IDF-FL202 to 214)



(IDU-FL210 to 218)



Dimension	s			[mm]
Part no.	Applicable air dryer	Α	В	Weight [g]
IDF-FL200	IDF1E, 2E	220	150	20
IDF-FL201	IDF3E	220	200	30
IDF-FL202	IDF4E	310	195	45
IDF-FL203	IDF6E, IDU3E	375	195	55
IDF-FL204	IDF8E, IDU4E	340	265	70
IDF-FL205	IDF11E, IDU6E	375	203	75
IDF-FL206	IDF15E1	440	375	120
IDF-FL207	IDF22E	420	315	100
IDF-FL208	IDF37E	550	365	140
IDF-FL213	IDF55E	720	400	175
IDF-FL214	IDF75E	610	560	190

^{*} A filter set for the IDF-FL200 to 214 consists of 1 filter.

Dimension	s			[mm]
Part no.	Applicable air dryer	Α	В	Weight [g]
IDU-FL210	IDU8E	375	265	75
IDU-FLZ IU	IDU6E	375	265	75
IDU-FL211	IDU11E	375	265	75
IDU-FLZ11	IDOTTE	360	320	90
IDU-FL212	IDU15E1	440	370	120
IDU-FLZ1Z	IDUISEI	440	375	120
IDU-FL215	IDU22E	420	315	100
IDU-FLZ15	IDUZZE	555	415	170
IDU-FL216	IDU37E	550	365	140
1DU-FL210	ID037E	580	540	230
IDU-FL217	IDU55E	720	400	175
IDU-FLZ17	IDOSSE	735	515	265
IDU-FL218	IDU75E	610	560	190
1DU-FL216	IDU/5E	735	515	265

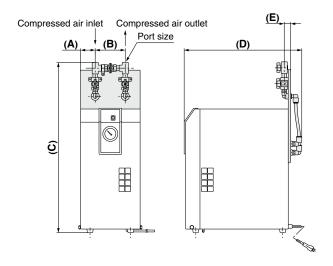
^{*} A filter set for the IDU-FL210 to 212, 215 to 218 consists of 2 filters.

Dimensions	[]										
Part no.	Applicable air dryer	Α	В								
IDF-FL190D	IDF190D	250	480								
	1051900	750	480								
IDF-FL240D	IDF240D	440	670								
IDF-FL240D	1072400	600	670								

^{*} A filter set for the IDF-FL190D to 240D consists of 4 filters.

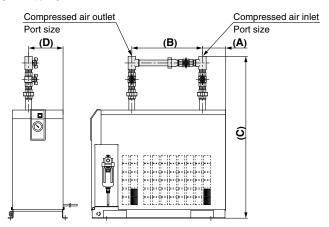
Dimensions

[Bypass piping set] IDF1E to 3E



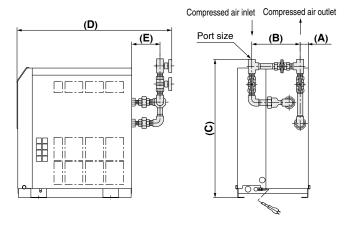
Dimensions [mm]											
Part no.	Applicable air dryer	Port size Rc	A	В	С	D	E	Weight [kg]			
IDF-BP300	IDF1E				549	440		1.5			
IDF-BP301	IDF2E	3/8	56	114	628	443	21	1.6			
IDF-BP302	IDF3E				642	445		1.0			

IDF22E, 37E IDU22E to 75E



Dir	nensions							[mm
	Part no.	Applicable air dryer			С	D	Weight [kg]	
Y	IDF-BP317	IDF22E	1	134	405	928	198	4.4
þ	IDF-BP318	IDF37E	1 1/2	104	400	980	190	7.7
_	IDU-BP336	IDU22E	1	93	445	1465	46	4.5
D	IDU-BP337	IDU37E	1 1/2	64	550	1635	70	8.0
U IDU-BP338		IDU55E	2	53	530	1783	110	12.3
	IDU-DP336	IDU75E		55	550	1918	110	12.3

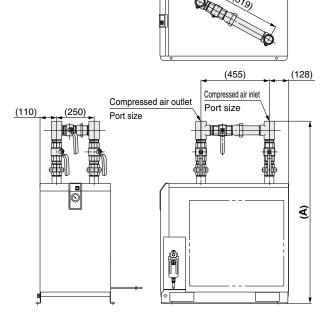
IDF4E to 15E1 IDU3E to 6E



•			!	• -		_
)	m	er	16	n	ns	2

Di	Dimensions [mm]												
	Part no.	Applicable air dryer	Port size Rc	A	В	С	D	E	Weight [kg]				
	IDF-BP303	IDF4E	1/2	2 175 531		595	110	2.3					
1		IDF6E		31		555	617	129					
D	IDF-BP304	IDF8E	3/4	"	187	627	647		3.3				
F		IDF11E				027	047						
	IDF-BP316	IDF15E1	1	41	210	710	774	136	5.3				
1	IDU-BP305	IDU3E	3/8		202	506	572	100	1.6				
Ď	IDU-BP306	IDU4E	1/2	31	175	603	625	110	2.3				
U	IDU-BP307	IDU6E	3/4		187	627	647	129	3.3				

IDF55E, 75E



Dimensions				[mm
Part no.	Applicable air dryer	Port size Rc	Α	Weight [kg]
IDF-BP325	IDF55E	0	1191	12.3
IDF-DF323	IDF75E		1291	12.3

Model Selection

Refrigerant R134a (HFC) IDF□E

Refrigerant R407C (HFC) IDF□E

Refrigerant R407C (HFC)

Refrigerant R134a (HFC) IDU□E

Refrigerant R407C (HFC) IDU□E

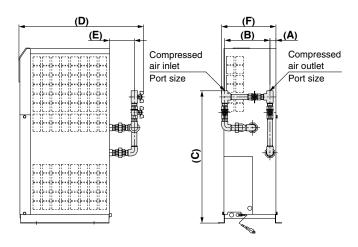
Options

Specific Product Precautions



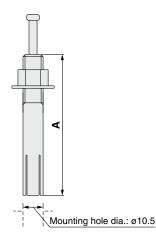
Dimensions

[Bypass piping set] IDU8E to 15E1



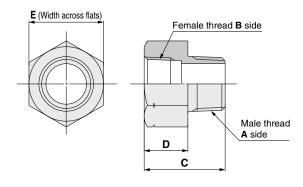
Dimensions [m												
Part no.	Applicable air dryer	Port size Rc	Α	В	С	D	E	Weight [kg]				
IDU-BP320	IDU8E	3/4	31		687	647	129	3.6				
IDU-BF320	IDU11E	3/4	31	210	007	047	129	3.0				
IDU-BP322	IDU15E1	1	79		745	791	136	5.3				

[Foundation bolt set]



Dimensions											
Part no.	Applicable air dryer	Nominal thread size	Material	Number of 1 set	Α						
IDF-AB500	IDF4E to 75E				50						
IDI -AD300	IDU3E to 15E1	M10	Stainless	4	50						
IDF-AB501	IDU22E to 75E	IVITO	steel	4	70						
IDF-ADSUI	IDF100 to 150F				70						

[Piping adapter]

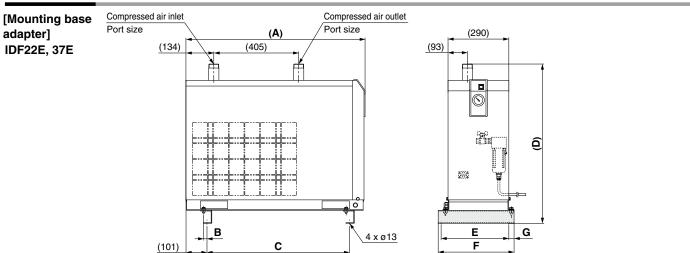


Dimensions [mm]											
Part no.	Thread type	and port size	Applicable air dryer	С	D	Е	Material	Number			
i ait iio.	Male thread A side	Female thread B side	Applicable all diyel	•	"	_	Iviateriai	of 1 set			
IDF-AP601	R1/2	NPT1/2	IDF4E IDU4E	38	20	26					
IDF-AP603	R3/4	NPT3/4	IDF6E to 11E IDU6E to 11E	43	43 23						
IDF-AP604	NPT1	Rc1	IDF22E, IDU22E	50	50 27	46					
IDF-AP605	R1	NPT1	IDF15E1, IDU15E1	30	21	40	Brass	2			
IDF-AP606	NPT1 1/2	Rc1 1/2	IDF37E, IDU37E	55	31	54					
IDF-AP607	NPT2	Rc2	IDF55E, 75E, IDU55E, 75E IDF100 to 150F	65	35	70					
IDF-AP609	R3/8	NPT3/8	IDF1E to 3E IDU3E	30	15	22					



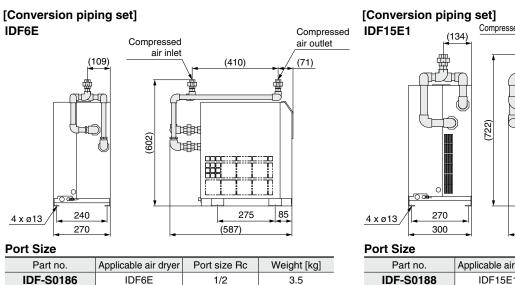
Optional Accessories IDF/IDU Series

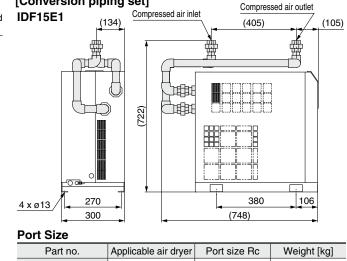
Dimensions



Dimensions

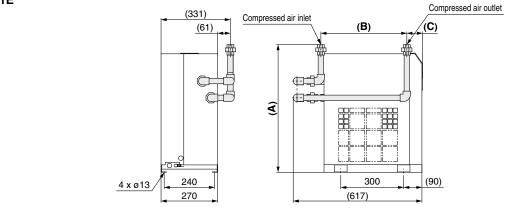
Sinici sions												
Part no.	Applicable air dryer	Port size R	A	В	С	D	E	F	G	Single unit weight [kg]	Reference weight (including air dryer) [kg]	
IDF-S0189	IDF22E	1	775	17	600	760	323	362	25	3	57	
IDF-S0147	IDF37E	1 1/2	855	30	680	810	348	376	14	4	66	





Part no.	Applicable air dryer	Port size Rc	Weight [kg]
IDF-S0188	IDF15E1	1	6.7

IDF8E, 11E



Dimensions [mm]									
Part no.	Applicable air dryer	Port size Rc	Α	В	С	Weight [kg]			
IDF-S0203	IDF8E	3/4	609	410	75	3.8			
IDF-S0187	IDF11F	3/4	669	405	89	4.0			

SMC

42

Model Selection

Refrigerant R134a (HFC) IDF□E

Refrigerant R407C (HFC) IDF□E

Refrigerant R407C (HFC) IDF□F

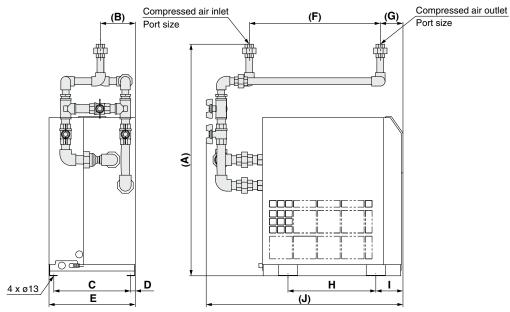
Refrigerant R407C (HFC)

Refrigerant R134a (HFC) IDU□E

Refrigerant R407C (HFC) IDU□E

Dimensions

[Conversion bypass piping set] IDF6E to 15E1



Dimensions													[mm]
Part no.	Applicable air dryer	Port size Rc	A	В	С	D	E	F	G	н	ı	J	Weight [kg]
IDF-S0183	IDF6E	1/2	725	109	240	15	270	410	71	275	85	616	5.6
IDF-S0202	IDF8E	3/4	749	111	240	15	270	410	75	300	90	646	6.1
IDF-S0184	IDF11E	3/4	815	138	240	15	270	405	89	300	90	653	6.3
IDF-S0185	IDF15E1	1	897	135	270	15	300	405	105	380	106	775	10.2

IDF/IDU Series Auto Drain Replacement Parts: Previous and New Model Product Nos.

A new line of auto drain models, which feature new product numbers and a new shape, was recently introduced, with manufacturing starting in either March or June 2019 (depending on the model). The previous auto drain models and the new auto drain models do not have mounting interchangeability. Please check the serial number on the dryer specification label before ordering.

Auto drain (Bowl assembly)



Dryer model	model Auto (Bowl asser		Manufacturing date	SERIAL No.
IDF1E	Previous	AD37	Manufactured in February 2019 and before	XP and before
IDFIE	New	AD37-A	Manufactured in March 2019 and after	XQ and after
IDF2E/3E/4E	Previous	AD38	Manufactured in February 2019 and before	XP and before
IDF2E/3E/4E	New	AD38-A	Manufactured in March 2019 and after	XQ and after
IDF6E/8E/11E/15E1/22E/37E	Previous	AD48	Manufactured in February 2019 and before	XP and before
IDU3E/4E/6E/8E/11E/15E1/22E/37E	New	AD48-A	Manufactured in March 2019 and after	XQ and after
IDF55E/75E	Previous	AD48	Manufactured in May 2019 and before	XS and before
IDU55E/75E	New	AD48-A	Manufactured in June 2019 and after	XT and after

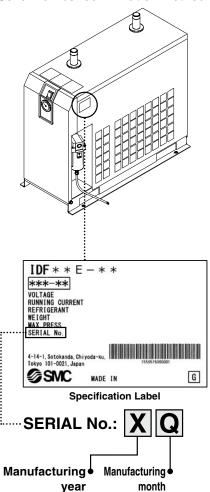
Option: K Moderate pressure specification (Auto drain bowl type: Metal bowl with level gauge)



Dryer model	(Bowl	Auto drain assembly) part no.	Manufacturing date	SERIAL No.
IDF6E/8E/11E/15E1 -K	Previous	IDF-S0086*1	Manufactured in February 2019 and before	XP and before
IDU3E/4E/6E/8E/11E/15E1 -K	New	IDF-S1926*2	Manufactured in March 2019 and after	XQ and after
IDF22E/37E -K	Previous	AD48-8-X2110	Manufactured in February 2019 and before	XP and before
IDF22E/37E -K	New	AD48-8-A-X2112	Manufactured in March 2019 and after	XQ and after

- *1 Assembly of auto drain: AD48-8-X2110, One-touch fitting: KQ2H10-02AS, and insulator
- *2 Assembly of auto drain: AD48-8-A-X2112, One-touch fitting: KQ2H10-02AS, and insulator

Dryer specification label Serial number confirmation method



| Symbol | Year | A | 1996 | B | 1997 | E | E | W | 2018 | X | 2020 | Y | 2020 | Symbol | Y | 2020 | Symbol | Year | Y

Symbol	Month
0	1
Р	2
Q	3
R	4
S	5
Т	6
U	7
٧	8
W	9
X	10
у	11
Z	12





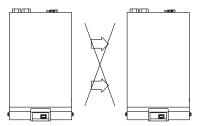
IDF/IDU Series Specific Product Precautions 1

Be sure to read this before handling the products. Refer to the back cover for Safety Instructions. For Air Preparation Equipment Precautions, refer to the Handling Precautions for SMC Products and the Operation Manual on the SMC website, http://www.smcworld.com

Installation

⚠ Caution

- Avoid locations where the air dryer will be in direct contact with wind and rain. (Avoid locations where relative humidity is 85% or more.)
- Avoid exposure to direct sunlight.
- Avoid locations that contain much dust, corrosive gases, or flammable gases. Failure due to corrosion is not covered under warranty. However, when the risk of corrosion is high, select the Option C (anti-corrosive treatment for copper tube).
- Avoid locations of poor ventilation and high temperature.
- Avoid locations where the air dryer is too close to a wall, etc.
 Leave a sufficient space between the air dryer and the wall according to the Maintenance Space in the Operation Manual.
- Avoid locations where the air dryer could draw in high temperature air discharged from an air compressor or other dryer.



Confirm that the exhaust air does not flow into the neighboring equipment.

- Avoid locations where vibrations occur.
- Avoid possible locations where the drain can freeze.
- Avoid locations with an ambient temperature 40°C or higher (IDF100F to 150F: 45°C or higher).
- Avoid installation on machines for transporting, such as vehicles, ships, etc.
- Avoid locations where rapid pressure fluctuation or flow speed change is generated.

Drain Tube

⚠ Caution

- A polyurethane tube is attached as a drain tube for the IDF1E to 150F, IDU3E to 75E. Use this tube to discharge drainage to a drain tank, etc.
- Do not use the drain tube in an upward direction. Do not bend or crush the drain tube. (Otherwise, the operation of an auto drain will stop and drainage will discharge through the air outlet.) If it is unavoidable that the tube goes upward, make sure it only goes as far as the position of the auto drain outlet.
- The drain tube comes with a tube fitting. Pipe a 10 mm O.D. tube with a length of 5 m or less.

Power Supply

⚠ Caution

<100 VAC>

- Insert the power supply plug to an exclusive 100 VAC power outlet.
- Install an earth leakage breaker*1 suitable to each model for the power supply.
- Maintain voltage range within ±10% of the rated voltage.
- Be sure to ground the power supply prior to use.
- Multiple-branch wiring is dangerous since it causes overheating.
- Do not extend the power cable by using a table tap, etc.
 A voltage drop may cause the air dryer to stop operating.
- *1 Select an earth leakage breaker with a sensitivity of leak current of 30 mA and a rated current of 10 A.

<200 VAC>

- Connect the power supply to the terminal block.
- Install an earth leakage breaker*2 suitable to each model for the power supply.
- Maintain voltage range within ±10% of the rated voltage.
- *2 Select an earth leakage breaker with a sensitivity of leak current of 30 mA.

As regards rated current, refer to Applicable Earth Leakage Breaker Capacity on pages 8, 12, 15, 16, 20, 23 and 26.

When using with other voltages than specified for a standard product, use a separately installed power transformer. (page 34)

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IDF/IDU Series

Specific Product Precautions 2

Be sure to read this before handling the products. Refer to the back cover for Safety Instructions. For Air Preparation Equipment Precautions, refer to the Handling Precautions for SMC Products and the Operation Manual on the SMC website, http://www.smcworld.com

Air Piping

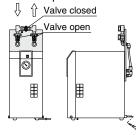
⚠ Caution

- Be careful to avoid an error in connecting the air piping at the compressed air inlet (IN) and outlet (OUT).
- Install bypass piping since it is needed for maintenance.

Use the bypass piping set on pages 40 and 41.

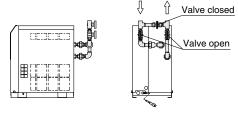
IDF1E to 3E

Compressed air inlet Compressed air outlet

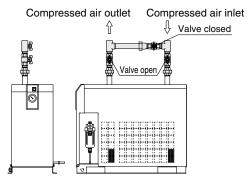


IDF4E to 15E1

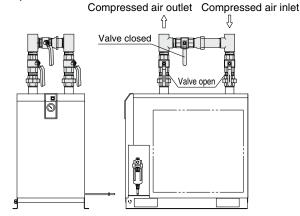
IDU3E to 15E1 Compressed air inlet Compressed air outlet



IDF22E, 37E IDU22E to 75E



IDF55E, 75E



- When tightening the inlet/outlet air piping, firmly hold the hexagonal parts of the port on the air dryer side or piping with a wrench or adjustable angle wrench.
- Variations in operating conditions may cause condensation to form on the surface of the outlet piping. Apply thermal insulation around the piping to prevent condensation from forming.
- Confirm that vibrations resulting from the compressor are not transmitted through the air piping to the air dryer.
- Do not allow the weight of the piping to lie directly on the air dryer.
- If a metallic flexible tubing is used for the inlet/outlet air piping, abnormal noise might be generated in the piping. In that case, please change it to the steel tubing.

Protection Circuit

When the air dryer is operated in the following cases, the protection circuit will activate, the light will turn off and the air dryer will come to stop.

- The compressed air temperature is too high.
- The compressed air flow rate is too high.
- The ambient temperature is too high. (40°C or higher (IDF100F to 150F: 45°C or higher))
- \bullet The fluctuation of the power supply voltage is beyond $\pm 10\%$ of the rated voltage.
- The air dryer is drawing in high temperature air exhausted from an air compressor or other dryer.
- The ventilation grille is obstructed by a wall or clogged with dust.

Transportation and Installation

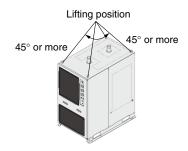
⚠ Warning

Be sure to follow the instructions below for transporting the product.

- The product is filled with refrigerant. Transport it (by land, sea or air) in accordance with laws and regulations specified.
- When carrying the product, be careful not to let it drop or fall over.
 Lift it by using a forklift or rope and lifting hook. The lifting angle should be 45° or more.

Note) The lifting hooks are installed on the IDF100F to 150F

- Do not lift the product by holding the panel, fittings or piping.
- Never lay the product down for transportation. This may lead to damage to the product.
 - The product is heavy and has potential dangers in transportation. Be sure to follow the instructions above.
 - Be sure to use a forklift or lifting hook for transporting the product.





Specific Product

IDF/IDU Series

Specific Product Precautions 3

Be sure to read this before handling the products. Refer to the back cover for Safety Instructions. For Air Preparation Equipment Precautions, refer to the Handling Precautions for SMC Products and the Operation Manual on the SMC website, http://www.smcworld.com

Compressor Air Delivery

⚠ Caution

Use an air compressor with an air delivery of 100 L/min or more for a model other than the IDF1E.

Since the auto drain of the IDF2E to 75E, IDU3E to 75E is designed in such a way that the valve remains open unless the air pressure rises to 0.1 MPa or higher, air will blow out from the drain outlet at the time of air compressor start up until the pressure increases. Therefore, if an air compressor has a small air delivery, the pressure may not be sufficient.

Auto Drain

⚠ Caution

The auto drain may not function properly, depending on the quality of the compressed air. Check the operation once a day.

Cleaning of Ventilation Area (Air-cooled)

⚠ Caution

Remove dust from the ventilation area once a month using a vacuum cleaner or an air blow nozzle.

Time Delay for Restarting

⚠ Caution

- Allow at least three minutes before restarting the air dryer.
 Otherwise, the protection circuit will activate, the light will turn off and the air dryer will not start up.
- The residual drainage in the air dryer may splash over the outlet when the operation is re-started, so it is recommended to install a filter on the outlet of the air dryer.

Modifying the Standard Specifications

⚠ Caution

Do not modify the standard product using any of the optional specifications once the product has been supplied to a customer. Check the specifications carefully before selecting an air dryer.

Facility Water Supply (Water-cooled)

⚠ Warning

- 1. Be certain to supply the facility water.
 - Prohibition of water-cut operation, very little flow rate of water operation.

Do not operate under the condition that there is no facility water or where there is very little flow rate of water is flowing. In this kind of operation, facility water temperature may become extremely higher. It is dangerous enough the material of hose may soften and burst when the piping supplying the facility water is connected with hose.

2. Actions to be taken when an emergency stop occurs due to high temperature.

In case a stop occurs due to extremely high temperature resulting from a decrease in the facility water flow rate, do not immediately flow facility water. It is dangerous enough the material of hose may soften and burst when the piping supplying the facility water is connected with hose.

First, naturally let it cool down by removing the cause of the flow rate reduction. Secondly, confirm that there is no leakage again.

∧ Caution

- 1. Facility water quality
 - Use the facility water within the specified range as shown below. When using with other fluids than facility water, please consult with SMC.
 - 2. When it is likely that foreign matter may enter the fluid, install a filter (20 mesh or equivalent).

<Facility Water Quality Standard>

The Japan Refrigeration and Air Conditioning Industry Association JRA GL-02-1994 "Cooling water system – Circulation type – Circulating water"

	,		
	Item	Unit	Standard value
	pH (at 25°C)	_	6.5 to 8.2
	Electric conductivity (25°C)	[µS/cm]	100*1 to 800*1
	Chloride ion (Cl ⁻)	[mg/L]	200 or less
Standard	Sulfuric acid ion (SO ₄ ²⁻)	[mg/L]	200 or less
item	Acid consumption amount (at pH4.8)	[mg/L]	100 or less
	Total hardness	[mg/L]	200 or less
	Calcium hardness (CaCO ₃)	[mg/L]	150 or less
	Ionic state silica (SiO ₂)	[mg/L]	50 or less
Reference	Iron (Fe)	[mg/L]	1.0 or less
	Copper (Cu)	[mg/L]	0.3 or less
	Sulfide ion (S ₂ ⁻)	[mg/L]	Should not be detected.
item	Ammonium ion (NH ₄ +)	[mg/L]	1.0 or less
	Residual chlorine (CI)	[mg/L]	0.3 or less
	Free carbon (CO ₂)	[mg/L]	4.0 or less

*1 In the case of [MΩ·cm], it will be 0.00125 to 0.01.

■ Refrigerant with GWP Reference

	Global Warming Potential (GWP)						
Refrigerant	Regulation (EU) No 517/2014 (Based on the IPCC AR4)	Revised Fluorocarbons Recovery and Destruction Law (Japanese law)					
R134a	1430	1430					
R404A	3922	3920					
R407C	1774	1770					
R410A	2088	2090					

- * This product is hermetically sealed and contains fluorinated greenhouse gases (HFC). When this product is sold on the market in the EU after January 1, 2017, it needs to be compliant with the quota system of the F-Gas Regulation in the EU.
- See specification table for refrigerant used in the product.

⚠ Safety Instructions

These safety instructions are intended to prevent hazardous situations and/or equipment damage. These instructions indicate the level of potential hazard with the labels of "Caution," "Warning" or "Danger." They are all important notes for safety and must be followed in addition to International Standards (ISO/IEC)*1), and other safety regulations.

Caution: Caution indicates a hazard with a low level of risk which, If not avoided, could result in minor or moderate injury.

★ Warning: Warning indicates a hazard with a medium level of risk which, if not avoided, could result in death or serious injury.

⚠ Danger: Danger indicates a nazaru wiun a nigin level on the first avoided, will result in death or serious injury. **Danger** indicates a hazard with a high level of risk which, *1) ISO 4414: Pneumatic fluid power - General rules relating to systems.

ISO 4413: Hydraulic fluid power – General rules relating to systems.

IEC 60204-1: Safety of machinery - Electrical equipment of machines. (Part 1: General requirements)

ISO 10218-1: Manipulating industrial robots - Safety.

⚠Warning

1. The compatibility of the product is the responsibility of the person who designs the equipment or decides its specifications.

Since the product specified here is used under various operating conditions, its compatibility with specific equipment must be decided by the person who designs the equipment or decides its specifications based on necessary analysis and test results. The expected performance and safety assurance of the equipment will be the responsibility of the person who has determined its compatibility with the product. This person should also continuously review all specifications of the product referring to its latest catalog information, with a view to giving due consideration to any possibility of equipment failure when configuring the equipment.

2. Only personnel with appropriate training should operate machinery and equipment.

The product specified here may become unsafe if handled incorrectly. The assembly, operation and maintenance of machines or equipment including our products must be performed by an operator who is appropriately trained and experienced.

3. Do not service or attempt to remove product and machinery/ equipment until safety is confirmed.

- 1. The inspection and maintenance of machinery/equipment should only be performed after measures to prevent falling or runaway of the driven objects have been confirmed.
- 2. When the product is to be removed, confirm that the safety measures as mentioned above are implemented and the power from any appropriate source is cut, and read and understand the specific product precautions of all relevant products carefully.
- 3. Before machinery/equipment is restarted, take measures to prevent unexpected operation and malfunction.

4. Contact SMC beforehand and take special consideration of safety measures if the product is to be used in any of the following conditions.

- 1. Conditions and environments outside of the given specifications, or use outdoors or in a place exposed to direct sunlight.
- 2. Installation on equipment in conjunction with atomic energy, railways, air navigation, space, shipping, vehicles, military, medical treatment, combustion and recreation, or equipment in contact with food and beverages, emergency stop circuits, clutch and brake circuits in press applications, safety equipment or other applications unsuitable for the standard specifications described in the product catalog.
- 3. An application which could have negative effects on people, property, or animals requiring special safety analysis.
- 4. Use in an interlock circuit, which requires the provision of double interlock for possible failure by using a mechanical protective function, and periodical checks to confirm proper operation.

⚠ Caution

1. The product is provided for use in manufacturing industries.

The product herein described is basically provided for peaceful use in manufacturing industries.

If considering using the product in other industries, consult SMC beforehand and exchange specifications or a contract if necessary. If anything is unclear, contact your nearest sales branch.

Limited warranty and Disclaimer/ **Compliance Requirements**

The product used is subject to the following "Limited warranty and Disclaimer" and "Compliance Requirements".

Read and accept them before using the product.

Limited warranty and Disclaimer

- 1. The warranty period of the product is 1 year in service or 1.5 years after the product is delivered, whichever is first.*2)
 - Also, the product may have specified durability, running distance or replacement parts. Please consult your nearest sales branch.
- 2. For any failure or damage reported within the warranty period which is clearly our responsibility, a replacement product or necessary parts will be provided. This limited warranty applies only to our product independently, and not to any other damage incurred due to the failure of the product.
- 3. Prior to using SMC products, please read and understand the warranty terms and disclaimers noted in the specified catalog for the particular products.
 - 2) Vacuum pads are excluded from this 1 year warranty.

A vacuum pad is a consumable part, so it is warranted for a year after it is delivered.

Also, even within the warranty period, the wear of a product due to the use of the vacuum pad or failure due to the deterioration of rubber material are not covered by the limited warranty.

Compliance Requirements

- 1. The use of SMC products with production equipment for the manufacture of weapons of mass destruction (WMD) or any other weapon is strictly prohibited.
- 2. The exports of SMC products or technology from one country to another are governed by the relevant security laws and regulations of the countries involved in the transaction. Prior to the shipment of a SMC product to another country, assure that all local rules governing that export are known and followed.

⚠ Caution

SMC products are not intended for use as instruments for legal metrology.

Measurement instruments that SMC manufactures or sells have not been qualified by type approval tests relevant to the metrology (measurement) laws of each country. Therefore, SMC products cannot be used for business or certification ordained by the metrology (measurement) laws of each country.

Revision History

Edition G * Not available

Edition B * Added: Refrigerated Air Dryers IDF15E/22E/37E, IDU8E/11E/15E * Deleted: Option H (Moderate pressure specification

(Auto drain bowl: Metal bowl))

Compressor Intake Condition to Air Flow Capacity has been added to the standard specifications.

* Added: Refrigerated Air Dryers IDF55E/75E * A Piping Adapter has been added as an optional accessory. * Number of pages has been increased from 24 to 32. KV

*Edition D * Added: Refrigerated Air Dryers IDF120D to 240D, IDF370B * Added: Refrigerated Air Dryers IDU22E/37E, IDU55C/75C

* Number of pages has been increased from 32 to 44. LS * Added: Refrigerated Air Dryers IDU55E/75E * Deleted: Refrigerated Air Dryers IDU55C/75C * Number of pages has been increased from 44 to 52. MR

* The "Quick Reference Guide to Air Preparation Equipment" has been changed.

* Number of pages has been decreased from 52 to 48. OT

Edition H * Excerpted page 21 to 67 from Best Pneumatics Edition I

* Power consumption and operating current for the IDU37E-23 and IDU55E-23 have been changed. SZ Excerpted from Best Pneumatics No. 6 (Ver. 6)

 Option G (With Chinese labels and a Chinese operation manual) has been added to the IDF100F/125F/150F series.
 The refrigerant charge has been added to the specifications table. * The "Refrigerant with GWP Reference" has been added. VX

↑ Safety Instructions | Be sure to read the "Handling Precautions for SMC Products" (M-E03-3) and "Operation Manual" before use.