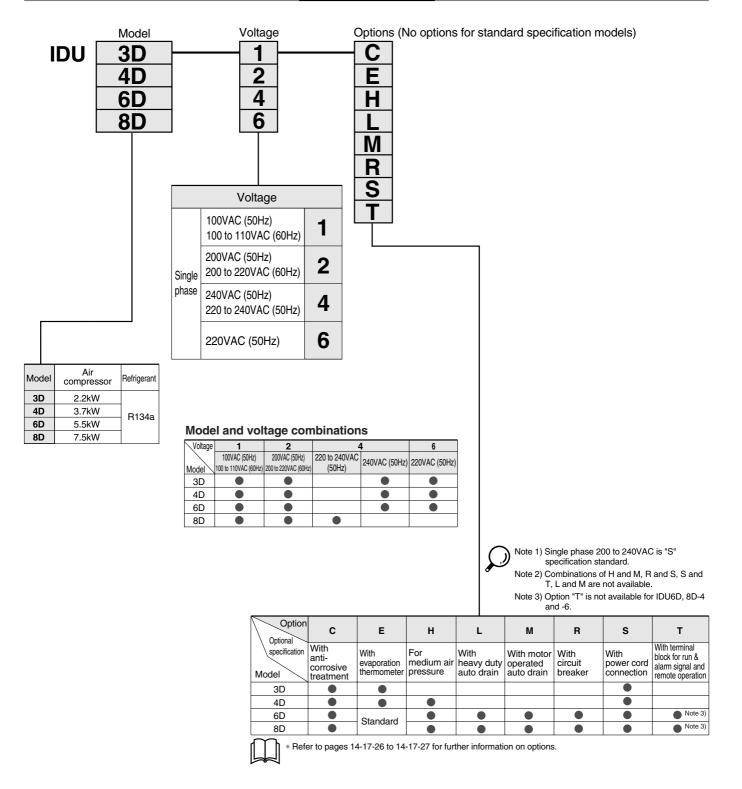
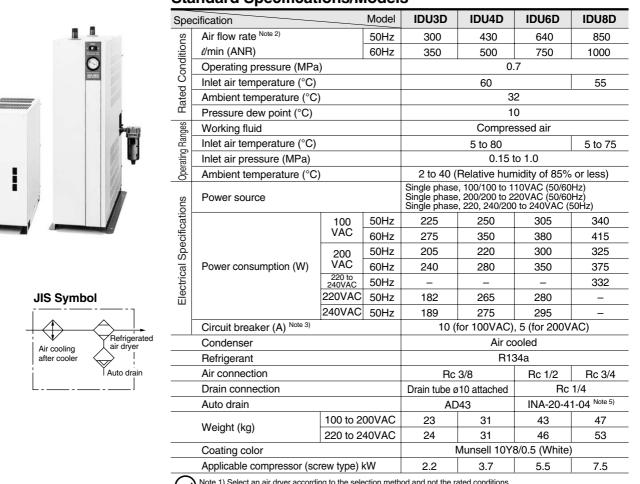
Refrigerant R134a Series IDU models is sc 3D, 4D, 6D, 8D

How to Order





Standard Specifications/Models

Note 1) Select an air dryer according to the selection method and not the rated conditions.

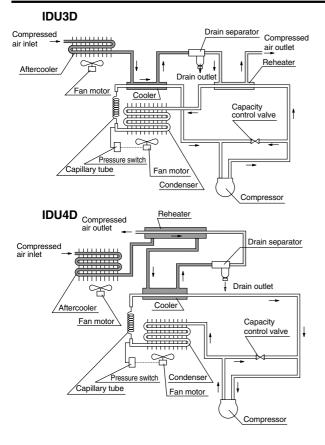
Note 2) The data for #min (ANR) refers to the conditions of 20°C, 1atm. pressure and relative humidity of 65%.

Note 3) Install a circuit breaker with sensitivity of ≤ 30mA.

Note 4) IDU3D to 8D-4/6 are only for frequency of 50Hz. Note 5) Spare part for auto drain INA-20-41-04 is AD44-x445

Operation Principles

B

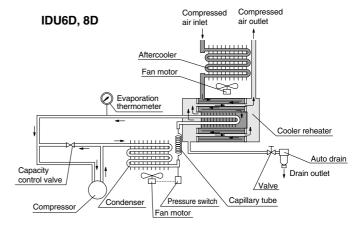


Humid hot air entering the air dryer is cooled in the aftercooler (air-cooling style) and then further cooled by the cooler.

At this time, the condensed moisture is separated from the air by the drain separator and automatically discharged. (IDU3D uses hot refrigerant vapor for reheating.)

The dried clean air is heated by the hot air that has entered the dryer. It is then discharged from air drver outlet.

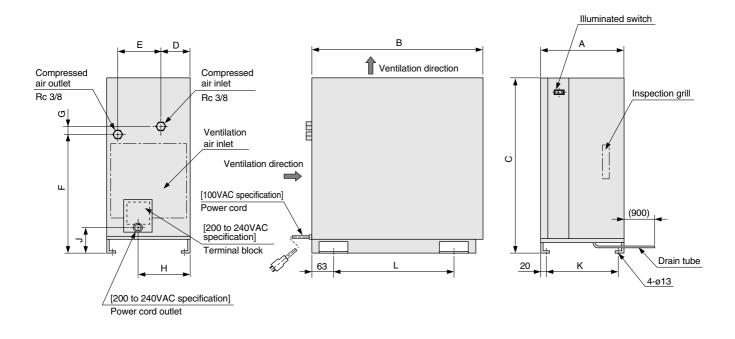




Series IDU Small

The models IDF1E to 11E and IDU3E to 6E have been revised. For details, refer to catalog no. ES30-8A. Similar updating for other IDF/IDU models is scheduled to follow shortly.

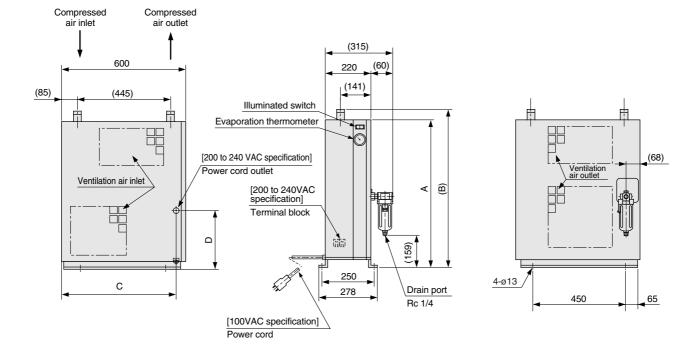
<u>IDU3D, 4D</u>



Model	Port size	A	В	С	D	E	F	G	Н	J	К	L
IDU3D	Rc 3/8	246	496	509	87	125	344	23	175 151	44 67	206	356
IDU4D	nc 5/6	242	591	606	31	170	469	13	171 179	44 67	202	446
				-		-				: Power sour	rce 200 to	240VAC

: Power source 200 to 240VAC

<u>IDU6D, 8D</u>



* Auto drain is packed together with air d	ryer. (Some assembly is required.)

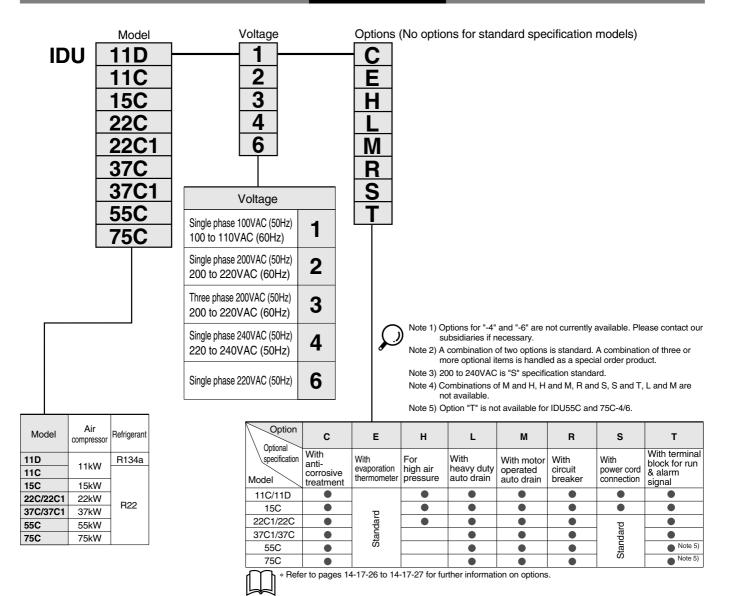
	0 ,			, ,	,
Model	Port size	A	В	С	D
IDU6D	R 1/2	710	760	560 551	240 75
IDU8D	R 3/4	810	860	500 551	240 75
		: F	ower s	source 220	to 240VAC

: Power source 220 to 240VAC

HA□
AT
ID□
AMG
AFF
Misc.

Refrigerant R22, R134a **Series IDU Medium** 11D, 11C, 15C, 15C1, 22C, 22C1, 37C, 37C1, 55C, 75C

How to Order



Model and voltage combinations

Voltage	1	2	3	4	1	6
	Single	Single phase				
Model	100VAC (50Hz) 100 to 110VAC (60Hz)	200VAC (50Hz) 200 to 220VAC (60Hz)	200VAC (50Hz) 200 to 220VAC (60Hz)	220 to 240VAC (50Hz)	240VAC (50Hz)	220VAC (50Hz)
11D				٠		
11C	•	•				
15C	•	•			•	•
22C					•	•
22C1			•			
37C					•	•
37C1			•			
55C			•		•	•
75C			•		•	•



Refrigerated Air Dryer Series IDU Medium



JIS Symbol

Refrigerated air dryer

Auto drain

Ŧ

Air cooling aftercooler ٢

C

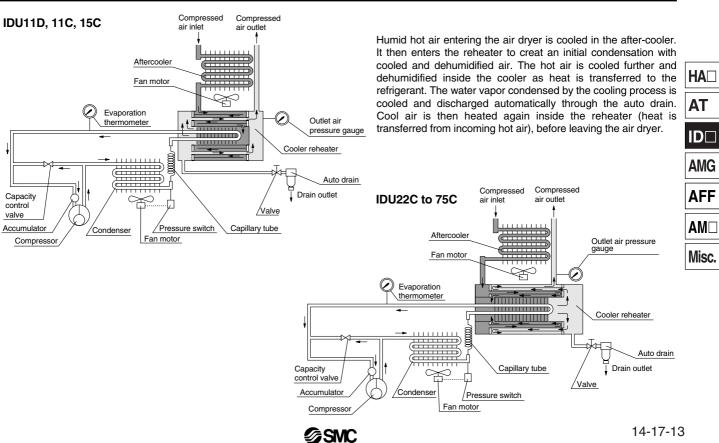
Standard Specifications/Models

_												
Sp	ecification		Model	IDU11D	IDU11C	IDU15C	IDU22C	IDU22C1	IDU37C	IDU37C1	IDU55C	IDU75C
S	Air flow rate Note 2)		50Hz	1300	1300	2050	31	50	52	00	7650	10500
Conditions	∉/min (ANR)		60Hz	—	1500	2400	_	3700	_	6100	9000	12400
ndi	Operating pressure	e (MPa)			0.7							
	Inlet air temperatur	e (°C)		55 50								0
Rated	Ambient temperatu						32					
Ba	Pressure dew point	t (°C)						10				
ges	Working fluid						Com	presse	ed air			
Ran	Inlet air temperatur	e (°C)			5 to 75			5 to	70		5 to	60
Operating Ranges	Inlet air pressure (N	/IPa)					0.	15 to 1	.0			
Oper	Ambient temperatu			2 to	40 (Re	lative	humidi	ty of 8	5% or I	ess)		
	Power source				ingle phase, 100100 to 1101/kC (50/60Hz) 220, 240VAC (50Hz) 220 to 240VAC (50Hz) Single phase, 220, 240V							
atio		100	50Hz	—	360	583						
ific		VAC	60Hz	—	385	700		_		_	_	_
Sec	Power	200	50Hz	_	348	597		750	_	870	1520	2290
ŝ	consumption (W)	VAC	60Hz	—	384	690	_	880	_	1040	1910	2770
Electrical Specifications		220 to 240VAC	50Hz	377	_	_	_	—	—	-		—
ecti		220VAC	50Hz	_	_	600	790	_	870		1650	2340
ũ		240VAC	50Hz	—	_	620	815	_	900		1700	2390
	Circuit breaker (A)	Note 3)		10 (for 100VAC), 5 (for 200VAC) 10 15								
	Condenser			Air cooled								
	Refrigerant			R134a R22								
	Air connection			Rc	3/4		Rc 1		Rc 1	1/2	Ro	; 2
	Drain connection					Rc 1/4						
	Auto drain				INA-2	0-41-0	4 Note 5)					
	Weight (kg) 100 to 200VAC			_	59	66	_	83	_	114	160	185
	weight (kg)	220 to 24	40VAC	62	—	70	85		115	_	170	194
	Coating color			Munsell 10Y8/0.5 (White)								
	Applicable compresso	or (screw ty	pe) kW	1	1	15	22 3			7	55	75
	-											

Note 1) Select an air dryer according to the selection method and not the rated conditions. Note 2) The data for //min (ANR) refers to the conditions of 20°C, 1 atm. pressure and relative humidity of 65%. Note 3) Install a circuit breaker with sensitivity of ≤ 30 mA

Note 4) IDU11D to 75C-4/6 are only for frequency of 50Hz. Note 5) Spare part for auto drain INA-20-41-04 is AD44-x445

Operation Principles

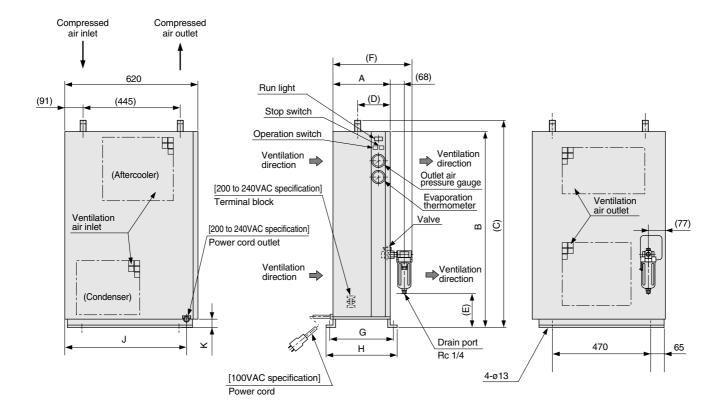


14-17-13

Series IDU Medium

The models IDF1E to 11E and IDU3E to 6E have been revised. For details, refer to catalog no. ES30-8A. Similar updating for other IDF/IDU models is scheduled to follow shortly.

IDU11D, 11C, 15C

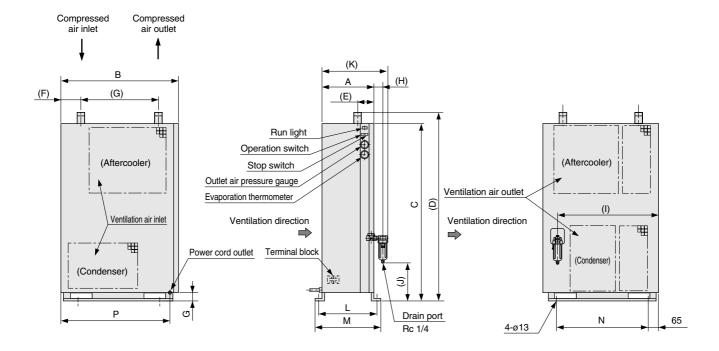


Model	Port size	Α	В	С	D	Е	F	G	Н	J	К
IDU11C/11D	R 3/4	260	910	959	152	157	363	289	317		
IDU15C	R 1	280	960	1009	175	207	383	309	337	571 580	30 70

: Power source 220 to 240VAC

Refrigerated Air Dryer Series IDU Medium

IDU22C, 22C1, 37C, 37C1, 55C, 75C



HA□
AT
ID□
AMG
AFF
AM
Misc.

* Auto drain is packed together with air dryer. (Some assembly is required.)

	-				-													
Model	Port size	Α	В	С	D	E	F	G	Н	1	J	K	L	М	Ν	Р	Q	Ĺ
IDU22C1/22C	R 1	300	750	1155	1235	71	70	445	63	642	219	398	328	356	600	700 700	50 90	П
IDU37C1/37C	R 1 1/2	360	830	1260	1350	112	136	550	68	722	269	463	388	416	680	780 776	50 90	
IDU55C	R 2	405	850	1340	1440	87	155	530	68	722	267	508	433	461	700	800 800	50 95	
IDU75C	R 2	425	850	1475	1575	87	220	530	68	722	317	528	453	481	700	800 800	50 95	Ľ
															_			

: Power source 220 to 240VAC



Series IDU/IDF **Option Specification**

The models IDF1E to 11E and IDU3E to 6E have been revised. For details, refer to catalog no. ES30-8A. Similar updating for other IDF/IDU models is scheduled to follow shortly.

Refer to pages 14-17-8, 12,16,20 and 23 for "How to order" of options.

Option symbol

Cool compressed air output at 10°C

- The air flow with this option is lower than that of the standard dryer.
- * On models IDF6D to 15C, the air inlet and outlet are reversed.

** Except for IDF1D to 4D, piping dimensions of the air inlet and outlet are different from standard. (Refer to pages 19, 22 and 25.)

Model		IDF1D	IDF2D	IDF3D	IDF4D	
Air flow capacity	50Hz	85	120	180	215	
(ℓ/min (ANR)) 50/60Hz	60Hz	100	140	210	250	
Model		IDF6D	IDF8D	IDF11C	IDF15C	
Air flow capacity	50Hz	320	425	650	1025	
(ℓ/min (ANR)) 50/60Hz	60Hz	375	500	750	1200	
Model		IDF22C1	IDF37C1	IDF55C	IDF75C	
Air flow capacity	50Hz	1575	2600	3825	5250	
(ℓ/min (ANR)) 50/60Hz	60Hz	1850	3050	4500	6200	

[Condition IDF1D] Pressure: 0.7MPa, Saturation: 35°C

Option symbol

Ambient temperature: 32°C. Outlet air temperature: 10°C [IDF2D to 75C] Pressure: 0.7MPa, Saturation: 40°C, Ambient temperature: 32°C, Outlet air temperature: 10°C

Anti-corrosive treatment

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. This option extends the service life

Special epoxy coating of 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 coating.

Note) For IDF370B, option C is assigned as X204.

Option symbol

With evaporation thermometer

A thermometer (pressure gauge) indicating the evaporating temperature of the refrigerant is attached to the operation panel, facilitating maintenance and daily checks. IDU6D to 75C, IDF6D to 370B standard.

1 1	Option symbol
E	For medium air pressure

This option provides a heat exchanger, auto drain, air pressure gauge and ball valve, etc., with a medium pressure capability. This is different from the standard specifications. Maximum operating pressure is 1.5MPa.

Option symbol
With heavy duty auto drain

A dryer with heavy duty auto drain (ADH4000-04) is installed instead of the float type auto drain (INA20-41-04), which is used for standard models to discharge drainage. IDF120D, 150D, 190D, 240D standard.

Ν

ID

ID

ID

ID

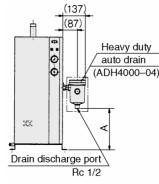
ID

ID

ID

ID

Note) For IDF370B, option L is assigned as X205.



Nodel	Α	Model	Α
U6D	210	IDF6D	210
U8D	210	IDF8D	210
U11C	208	IDF11C	208
U15C	258	IDF15C	258
U22C1	270	IDF22C1	250
U37C1	320	IDF37C1	300
U55C	318	IDF55C	298
U75C	368	IDF75C	348
		IDF120D	365
		IDF150D	365
		IDF190D	427
		IDF240D	592



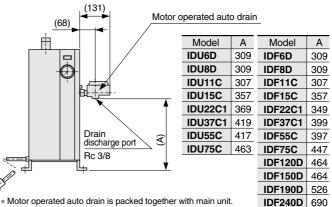
With motor operated auto drain

This option changes the float style auto drain (INA-20-41-04) used by standard air dryers to a motor operated auto drain (ADM200-04) where by drainage is discharged more precisely.

Operating air pressure	Air discharge if no drainage
0.3MPa	6 l (ANR) each time
0.5MPa	10 ℓ (ANR each time
0.7MPa	14 ℓ (ANR) each time

* Operation cycle: 1 cycle/min. Operation time: 2 sec./min.

IDF220B to 370B standard.

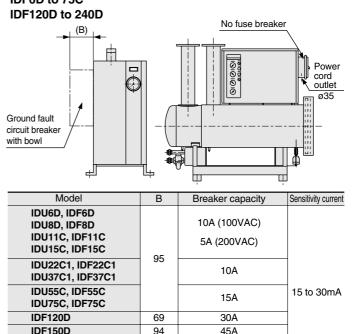


Assembly is required.

Option symbol With circuit breaker X202 (IDF220B, 370B)

A circuit breaker with bowl is attached to the side of the air dryer. This saves additional electrical wiring at the time of installation. (IDF120D to 370B do not have an electric leakage detection function.)

IDU6D to 75C IDF6D to 75C **IDF370B**



95

156

50A

60A

80A



IDF190D

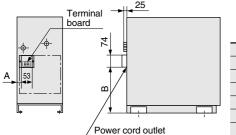
IDF240D

IDF370B

S Option symbol With power cord connection

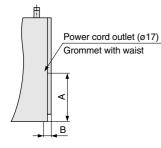
This option allows connection of the power supply to a terminal board (3P).

IDU3D, 4D, IDF1D to 4D



Model	Α	В
IDU3D	24	247
IDU4D	20	298
IDF1D	47	123
IDF2D	55	123
IDF3D	37	173
IDF4D	45	197

IDU6D to 15C, IDF6D to 15C



Model	Α	В
IDU6D	240	40
IDU8D	240	40
IDU11C	30	49
IDU15C	30	49
IDF6D	240	40
IDF8D	240	40
IDF11C	65	40
IDF15C	65	40

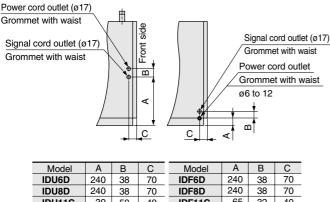
Option symbol With terminal block for run & alarm signal and remote operation

With the optional terminal, in addition to connection of the power supply, the air dryer can be started and stopped by remote control and an operation failure signal can be obtained. (If no voltage contact is made, an operation failure signal will register.) IDF120D to 370B standard.

IDU6D, 8D IDF6D, 8D

_

IDU11C to 75C IDF11C to 75C



IDU11C	30	50	49	IDF11C	65	32	40
IDU15C	30	50	49	IDF15C	65	32	40
IDU22C1	50	45	50	IDF22C1	30	45	50
IDU37C1	50	45	50	IDF37C1	30	45	50
IDU55C	50	45	50	IDF55C	30	45	50
IDU75C	50	45	50	IDF75C	30	45	50
IDU37C1 IDU55C	50 50	45 45	50 50	IDF37C1 IDF55C	30 30	45 45	50 50



Option symbol

Water cooled condenser (IDF37C1 to 240D)

This option can be used where the ambient temperature is high (Max. 43°C), and does not reduce air flow capacity. It is also possible to use this option in an enclosed environment to prevent increasing of the surrounding temperature. IDF370B standard.

W: Water cooled condenser (IDF37C1 to 240D)

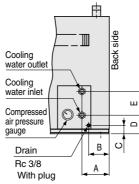
	<u> </u>		,				
Model	IDF37C1	IDF55C	IDF75C	IDF120D	IDF150D	IDF190D	IDF240D
Condenser type	Shell & coil system						
Cooling water flow <i>l</i> /min ^{Note1)}	6	8	20	50	65	80	90
Cooling tower capacity RT Note 2)	2	2	3	5	7.5	7.5	7.5
Water flow regulator	Pressure auto feed valve						
Connection hore on water side (union)	1/00	1/00	2/4D	10	10	10	10

 Connection bore on water side (union)
 1/2B
 1/2B
 3/4B
 1B
 1B
 1B
 1B

 Note 1) Value for inlet water temperature of 32°C and rated load.

Note 2) Value calculated for 1RT = 3, 300kcal/h.

IDF75C



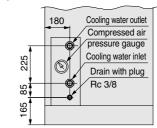
Model	Α	В	С	D	Е
IDF37C1	425	375	75	153	225
IDF55C	190	140	75	153	225
IDF75C	208	158	66	144	181

HA

AT

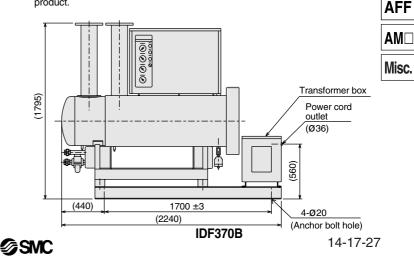
AMG

IDF120D to 240D



Transformer integrated

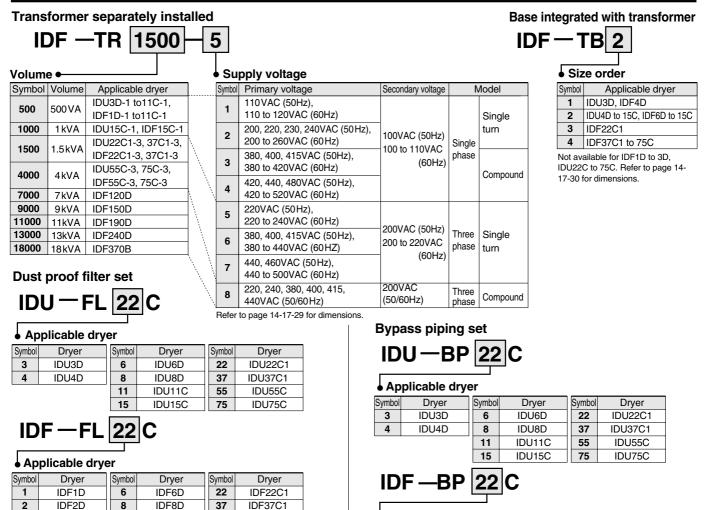
The power supply transformer can be integrated with an air dryer. It is used when a refrigerated air dryer is using a non-standard voltage specification. The power supply transformer for IDF120D to 240D is installed inside of the air dryer. Therefore, external dimensions are the same as the standard product.



Accessories (Option)

Des	scription	Features	Specifications	Applicable dryer	Dimensions	
Transformer separately installed		This is for power supply and voltage other than standard. (Relative humidity 85%)		All models	14-17-30	
Base integrated with transformer	C	This is the base for integrating the transformer and air dryer.	° ° —			
Dust proof filter set		Avoids decreasing of air dryer performance even in dusty atmosphere.	Max. ambient temperature 40°C	IDU3D to 75C IDF1D to 75C	14-17-30	
Y I		Easy bypass piping (connect this set to the air dryer), realizing substantial reduction of man-hours at the site.	Max. operating pressure 1.0MPa Max. operating temperature 60°C	IDU3D to 75C IDF1D to 75C	14-17-31	

How to Order



Applicable dryer

				-	
Symbol	Dryer	Symbol	Dryer	Symbol	Dryer
1	IDF1D	6	IDF6D	22	IDF22C1
2	IDF2D	8	IDF8D	37	IDF37C1
3	IDF3D	11	IDF11C	55	IDF55C
4	IDF4D	15	IDF15C	75	IDF75C

Cannot be mounted on models with option "A" (IDF6D to 75C). Available as Special Order Product.

Applicable drye								
Symbol	Dryer							
120	IDF120D							
150	IDF150D							
190	IDF190D							
240	IDF240D							
14-17-28								

IDF3D

IDF4D

IDF --- FL 120

11

15

IDF11C

IDF15C

D

55

75

IDF55C

IDF75C

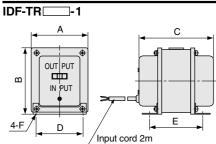
3

4



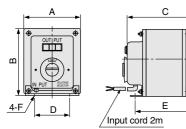
Accessories (Options)

Transformers



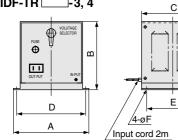
-	Part No.	Dryer	Capacity	Model	Primary voltage	Secondary voltage	A	В	С	D	Е	F	Weight (kg)
	IDF-TR500-1	IDF1D-1 to 11C-1 IDU3D-1 to 11C-1	000171	phase Single	phase (50Hz) 110 to Single 120VAC	100VAC (50Hz)	78	94	100	64	75	4.2 x 7 (Long hole)	1.5
-	IDF-TR1000-1	IDF15C-1 IDU15C-1	1kVA			120VAC	100 to 110VAC (60Hz)	104	122	134	75	114	4.2 x 9 (Long hole)

IDF-TR <u>-2</u>



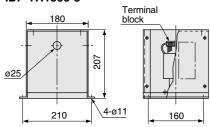
Part No.	Dryer	Capacity	Model	Primary voltage	Secondary voltage	A	В	С	D	Е	F	Weight (kg)
IDF-TR500-2	IDF1D-1 to 11C-1 IDU3D-1 to 11C-1	500VA	Single phase	200, 220 230, 240VAC (50Hz)	(50HZ)	118	140	163	70	112	5.5 x 10	6
IDF-TR1000-2	IDF15C-1 IDU15C-1	1kVA	Single turn	200 to 260VAC (60Hz)	100 to 110VAC (60Hz)	118	140	208	70	157	(Long hole)	10

IDF-TR _____-3, 4

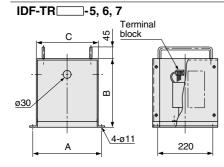


Part No.	Dryer	Capacity	Model	Primary voltage	Secondary voltage	A	в	с	D	Е	F	Weight (kg)
IDF-TR500-3	IDF1D-1 to 11C-1 IDU3D-1 to 11C-1	500VA		380, 400, 415VAC (50Hz)	100VAC (50Hz)							15
IDF-TR1000-3	IDF15C-1 IDU15C-1	1kVA	Single 380 to 420VA phase (60Hz) Single 420, 440,	•		000	0.07	100	010	100		22
IDF-TR500-4	IDF1D to 11C-1 IDU3D to 11C-1	500VA		420, 440, 480VAC (50Hz)	420, 440,	(60Hz)	230	207 190	190	210	160	9
IDF-TR1000-4	IDF15C-1 IDU15C-1	1kVA		420 to 520VAC (60Hz)								22

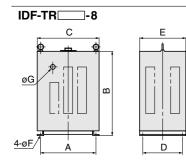
IDF-TR1500-5



Part No.	Dryer	Capacity	Model	Primary voltage	Secondary voltage	Weight (kg)
IDF-TR1500-5	IDF22C1-3 IDF37C1-3 IDU22C1-3 IDU37C1-3	1.01(1/1	Three phase Single turn	220V (50Hz) 220 to 240V (60Hz)	200V (50Hz) 200 to 220V (60Hz)	9



Part No.	Dryer	Capacity	Model	Primary voltage	Secondary voltage	А	В	С	Weight (kg)
IDF-TR1500-6	IDF22C1-3, 37C1-3 IDU22C1-3, 37C1-3	1.5kVA	hase V	380, 400, 415V (50Hz) 380 to 400, 400 to 415, 415 to 440V (60Hz)	200V (50Hz) 200 to 220V (60Hz)	275	259	240	18
IDF-TR1500-7	IDF22C1-3, 37C1-3 IDU22C1-3, 37C1-3	1.5kVA		440, 460V (50Hz) 440 to 460, 460 to 500V (60Hz)	200V (50Hz) 200 to 220V (60Hz)	275	259	240	18
IDF-TR4000-5	IDF55C-3, 75C-3 IDU55C-3, 75C-3	4kVA		220V (50Hz) 220 to 240V (60Hz)	200V (50Hz) 200 to 220V (60Hz)	275	259	240	14
IDF-TR4000-6	IDF55C-3, 75C-3 IDU55C-3, 75C-3	4kVA	년	380, 400, 415V (50Hz) 380 to 400, 400 to 415, 415 to 440V (60Hz)	200V (50Hz) 200 to 220V (60Hz)	355	299	320	35
IDF-TR4000-7	IDF55C-3, 75C-3 IDU55C-3, 75C-3	4kVA		440, 460V (50Hz) 440 to 460, 460 to 500V (60Hz)	200V (50Hz) 200 to 220V (60Hz)	355	299	320	42



Part No.	Dryer	Capacity	Model	Primary voltage	Secondary voltage	А	в	С	D	Е	F	G	Weight (kg)		
IDF-TR7000-8	IDF120D	7kVA	Ð	8 pu 220, 240, 8 pu 220, 240, 9 pu 220, 240, 380, 400, 9 pu 415,	3	360	540	400	260	300	11	30	94		
IDF-TR9000-8	IDF150D	9kVA	Jas		380, 400,	380, 400, 415.		400	650	450	300	350	13	40	109
IDF-TR11000-8	IDF190D	11kVA					200V (50/60Hz)	550	450	600	350	400	13	60	131
IDF-TR13000-8	IDF240D	13kVA	pre con		(50/00112)	400	600	450	300	350	13	60	138		
IDF-TR18000-8	IDF370B	18kVA	⊢ -			400	650	450	300	350	13	40	179		



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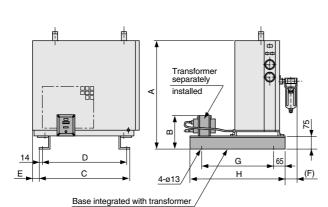
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Misc.

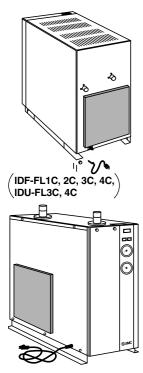
Base Integrated with Transformer



Part No.	Dryer	Transformer	A	В	С	D	Е	F	G	Н	Weight (kg)
		IDF-TR1500-5		327							83
IDF-TB3	IDF22C1	379 020 000					92				
		IDF-TR1500-7	1	379							52
		IDF-TR1500-5		327							95
	IDF37C1	IDF-TR1500-6	805	270	708	680		69 67			104
		IDF-TR1500-7	1	379			F 4		075	005	104
		IDF-TR4000-5		379			51	69	0/5	805	142
IDF-TB4	IDF55C	IDF-TR4000-6	925	5 419	728	700					163
		IDF-TR4000-7	1	419							170
		IDF-TR4000-5		379							154
	IDF75C	IDF-TR4000-6	975	440	728	700					175
		IDF-TR4000-7	1	419							182

Part No.	Dryer	Transformer	A	В	С	D	Е	F	G	Н	Weight (kg)
		IDF-TR500-1		171				-			33
	IDF4D-1	IDF-TR500-2	681	217	356	328		-	1		37
		IDF-TR500-3.4	1	284	1		53	_	1		46
IDF-TB1		IDF-TR500-1		171			55	-	1		30
	IDU3D-1	IDF-TR500-2	584	217	376	348		-	1		34
		IDF-TR500-3.4		284				-			43
		IDF-TR500-1		171							39
	IDF6D-1	IDF-TR500-2	595	217	470	442					44
		IDF-TR500-3.4		284							53
		IDF-TR500-1		171							39
	IDF8D-1	IDF-TR500-2	595	217	470	442					44
		IDF-TR500-3.4		284			55	69			53
		IDF-TR500-1		171			00				54
	IDF11C-1	IDF-TR500-2	645	217	490	462					59
		IDF-TR500-3.4		284							68
		IDF-TR1000-1		199							60
	IDF15C-1	IDF-TR1000-2	695	217	490 462	462			427	557	66
		IDF-TR1000-3.4		284							78
IDF-TB2	B2	IDF-TR500-1		171				_			38
	IDU4D-1	IDF-TR500-2	681	217	466	438	53	_			43
		IDF-TR500-3.4		284			-	-			52
		IDF-TR500-1		171							50
	IDU6D-1	IDF-TR500-2	785		470	442					55
		IDF-TR500-3.4		284							64
		IDF-TR500-1		171							54
	IDU8D-1	IDF-TR500-2	885		470	442					59
		IDF-TR500-3.4		284			55	69			68
		IDF-TR500-1		171							66
	IDU11C-1	IDF-TR500-2	985	<u> </u>	490	462					71
		IDF-TR500-3.4		284							80
		IDF-TR1000-1		199							76
	IDU15C-1	IDF-TR1000-2	1035		490	462					82
		IDF-TR1000-3.4		284							94
	\mathcal{C}	Note) Weight i	nclu	des a	air dr	ver a	and t	rans	form	er.	
	ند	Not avai									SC.
	o -						,				

Dust proof filter set



(IDF-FL6C, 8C, 11C, 15C)

(25)	(A)	(25) (25) (8)	
	F	_ <u>_</u> ↓ ┦	
		(10)	
Part No.	Dryer	A	В
IDF-FL1C	IDF1D	180	145
IDF-FL2C	IDF2D	180	145
IDF-FL3C	IDF3D	225	180
IDF-FL4C	IDF4D	225	180
IDF-FL6C	IDF6D	345	270
IDF-FL8C	IDF8D	345	270
IDF-FL11C	IDF11C	365	270
IDF-FL15C	IDF15C	385	310
IDF-FL22C	IDF22C1	430	310
IDF-FL37C	IDF37C1	555	380
IDF-FL55C	IDF55C	600	410
IDF-FL75C	IDF75C	640	510
IDF-FL120D		360	420
IDF-FL120D	IDF120D	440	420
		360	420
IDF-FL150D	IDF150D	440	420
		250	480
IDF-FL190D	IDF190D	750	480
		440	670
IDF-FL240D	IDF240D	600	670

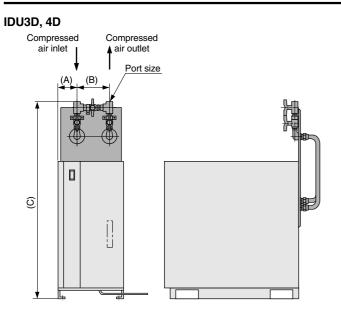
(A)

Part No.	Dryer	А	В
IDU-FL3C	IDU3D	245	265
IDU-FL4C	IDU4D	240	300
IDU-FL6C	IDU6D	400	170
IDU-FLOC		345	270
IDU-FL8C		405	070
IDU-FLOC	IDU8D	345	270
IDU-FL11C		395	310
IDO-FEITC	IDU11C	365	270
IDU-FL15C	IDU15C	395	010
IDU-FL15C	ID015C	385	310
IDU-FL22C	IDU22C1	480	430
IDU-FL22C	1002201	430	310
IDU-FL37C	IDU37C1	605	475
IDO-FL3/C	1003701	555	345
IDU-FL55C	IDU55C	605	475
100-FL35C	100550	600	410
IDU-FL75C		625	550
IDU-FL/5C	IDU75C	640	510



For IDU-FL6C to 75C, 2 pcs. are 1 set. For IDF-FL120D to 240D, 2 pcs. are 1 set.

Bypass Piping Set

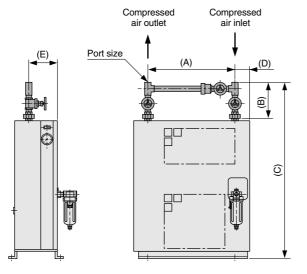


Part No.	Applicable dryer	Port size Rc	А	В	С
IDU-BP3C	IDU3D	3/8	77	112	706
IDU-BP4C	IDU4D	3/0	66	112	791

IDF1D, 2D, 3D			
Compresse	ed Compresse	d	
air inlet	air outlet		
(A)	(B)		
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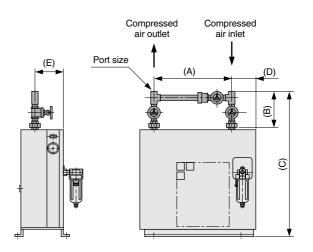
Part No.	Applicable dryer	Port size Rc	A	В	С
IDF-BP1C	IDF1D		34	112	563
IDF-BP2C	IDF2D	3/8	62	112	571
IDF-BP3C	IDF3D	5/0	57	112	632
IDF-BP4C	IDF-BP4C IDF4D		66	112	792

IDU6D, 8D, 11C, 15C, 22C1, 37C1, 55C, 75C



Part No.	Applicable dryer	Port size Rc	A	В	с	D	Е
IDU-BP6C	IDU6D	1/2	445	165	915	85	141
IDU-BP8C	IDU8D	3/4	445	196	1045	85	141
IDU-BP11C	IDU11C	3/4	445	196	1155	91	152
IDU-BP15C	IDU15C	1	445	222	1230	91	175
IDU-BP22C	IDU22C1	1	445	222	1445	70	71
IDU-BP37C	IDU37C1	1 1/2	550	280	1615	136	112
IDU-BP55C	IDU55C	2	530	325	1750	155	87
IDU-BP75C	IDU75C	2	530	325	1885	220	87

IDF6D, 8D, 11C, 15C, 22C1, 37C1, 55C, 75C



Part No.	Applicable dryer	Port size Rc	A	В	с	D	Е
IDF-BP6C	IDF6D	1/2	410	165	725	120	141
IDF-BP8C	IDF8D	3/4	410	196	755	120	141
IDF-BP11C	IDF11C	3/4	405	196	815	131	152
IDF-BP15C	IDF15C	1	405	222	890	131	175
IDF-BP22C	IDF22C1	1	405	222	970	91	183
IDF-BP37C	IDF37C1	1 1/2	405	280	1075	98	208
IDF-BP55C	IDF55C	2	405	325	1240	98	85
IDF-BP75C	IDF75C	2	405	325	1290	98	85

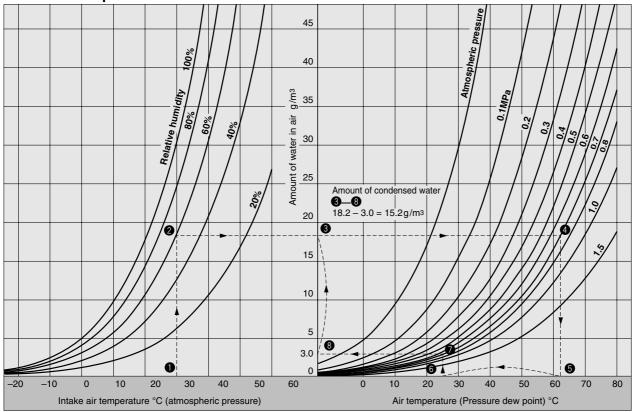
Cannot be mounted on models with option "A".



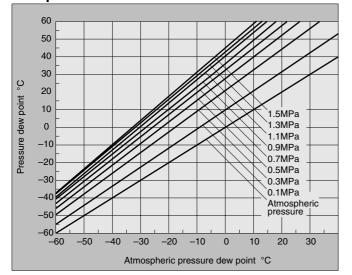
Misc.

Technical Data

Pressure dew point — Condensed water calculation



[[]Example] If air at 30°C and 60% humidity is pressurized to 0.7MPa, the dew point of the air will be 62°C. (①→②→③→④→⑤) If this is cooled to 25°C, the amount of condensed water generated will be 15.2g/m³. (Ô→⑦→③→⑥) Therefore, with an air flow rate of 3mC/min (22kW equivalent compressor), the amount of condensed water per unit of time is 15.2 x 3 x 60 = 2736g/h.



Dew point conversion chart

Series IDU/IDF Specific Product Precautions 1 **Air Preparation Equipment Precautions**

Be sure to read before handling.

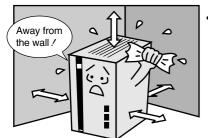
Installation Location

\land Caution

- · Avoid locations where the air dryer will be in direct contact with wind and rain. (Places where relative humidity is more than 85%)
- · Avoid exposure to direct sunlight.
- · Avoid dusty or corrosive environments.

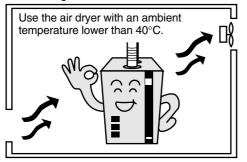
If it is used in Rair the above environments, select option C (with anticorrosive treatment). Dust Corrosive das

• Avoid places with poor ventilation and high temperature.



 Allow ample space around the air drver.

- · Avoid locations subjected to vibrations.
- · Avoid locations where drainage can freeze.



· Avoid installation on moving objects like trucks, ships, and so forth.

Drain Tube

Caution

- A polyurethane tube of 10mm outer diameter is attached as the drain tube for IDF1D to 4D and IDU3D, 4D. Use this tube to discharge drainage.
- Do not use the drain tube in an upward direction. Do not bend or crush the drain tube.

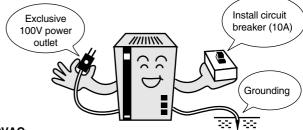
(Operation of auto drain will stop and water will flow out through the air outlet.)



A Caution

<100VAC>

- Insert the power supply plug into an exclusive 100VAC power outlet.
- Install a circuit breaker (10A)* at the power supply.
- Be sure to ground the power supply prior to use.
- Multiple-branch wiring is dangerous as it causes over-heating.
- Do not extend the power supply cord length using an extension cord.
- A voltage drop may cause the air dryer to stop operating.
- * Use a circuit breaker having a sensitivity current of 30mA or less and a rated current of 10A.



<200VAC>

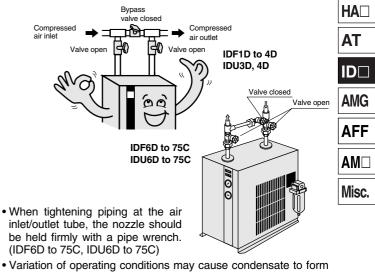
- Connect the power supply to the terminal block.
- Install a suitable circuit breaker applicable to each model.

When the voltage used is other than specified in the standard product specifications, use a transformer (page 14-17-28).

Air Piping

/∆Caution

- · Be careful to avoid errors in connecting the air piping to the compressed air inlet (IN) and outlet (OUT).
- Install bypass piping which it is needed for maintenance.



be held firmly with a pipe wrench. (IDF6D to 75C, IDU6D to 75C)

SMC

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- on the surface of the outlet piping. In the case of models larger than IDF6D and IDU6D, roll thermal insulation around piping to prevent condensate from forming.
- · Vibration caused by the compressor should not be transmitted through air piping to the air dryer.
- . Do not allow the weight of piping to be applied directly to the air dryer.

Series IDU/IDF Specific Product Precautions 2 Air Preparation Equipment Precautions

Be sure to read before handling.

Protection Circuit

A Caution

When the air dryer is operated under the following conditions, the protection circuit is activated, the light goes off and operation stops.

- When compressed air temperature is too high
- When compressed air flow rate is too high
- When ambient temperature is too high (40°C or higher)
- When power supply is beyond rated voltage by ±10%
- When ventilation port is obstructed by a wall or clogged with dust

Compressor Air Delivery

A Caution

Use an air compressor of 100 ℓ /min or greater air delivery with IDF2D to 4D/IDU3D, 4D, and 300 ℓ /min or greater air delivery with IDF6D to 75C/IDU6D to 75C.

Since the auto drain of IDF2D to 75C/IDU3D to 75C is designed in such a way that the valve remains open unless the air pressure rises to 0.15MPa or higher, air will blow out from the drain discharge port when the air compressor starts up until the pressure increases. Therefore, if an air compressor has a low air delivery, the pressure may not be sufficient.

Auto Drain

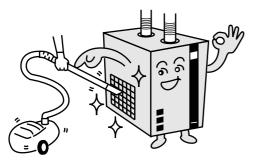
\triangle Caution

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

Cleaning of Ventilation Area

A Caution

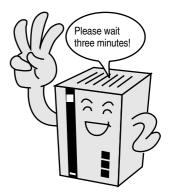
Remove dust from the ventilation area once a month using a vacuum cleaner or an air blow nozzle.



Time Delay for Restarting

A Caution

Allow at least three minutes before restarting the dryer. If the air dryer is restarted within three minutes after being stopped, the protection circuit will be activated, the operating light goes off and the dryer will not be activated.



Crank Case Heater

A Caution

A crank case heater is installed on IDF370B. Energize the crank case heater 12 hours prior to operation of the dryer to prevent trouble occurring in the refrigerant compressor.

