

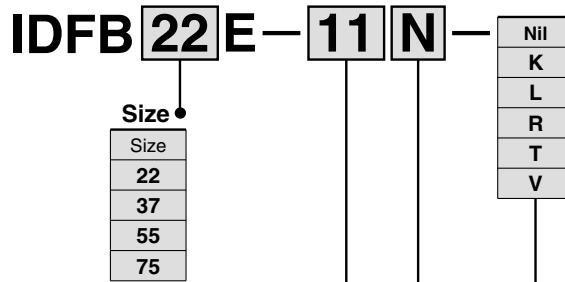
Refrigerant R134a (HFC), R407C (HFC) Standard Inlet Air

Series **IDFB** **E**

22E, 37E, 55E, 75E

(Inlet air temperature: 100°F [37.8°C])

How to Order



Voltage ●

Symbol	Voltage	Applicable size			
		22	37	55	75
11	Single-phase 115 VAC (60 Hz)	●	—	—	—
23	Single-phase 230 VAC (60 Hz)	●	●	—	—
46	Three-phase 460 VAC (60 Hz)	—	—	●	●

Thread type ●

Symbol	Thread type	Drain tube size
N	NPT (male)	3/8
Nil	R (male)	ø0.4 in [ø10 mm]

Table of Options and Available Combinations (Size/Option) ●

Symbol <small>Note 1)</small>	Nil	K	L	R	T	V
Optional specifications	None	For medium air pressure (Auto drain bowl: Metal case with level gauge)	With heavy duty auto drain (Suitable for medium air pressure)	With circuit breaker	With terminal block for run & alarm signal	Timer type solenoid valve with auto drain (Suitable for medium air pressure)
Size						
22	●	●	—	●	●	●
37	●	●	—	●	●	●
55	●	—	●	●	●	●
75	●	—	●	●	●	●

Note 1) Enter alphabetically when multiple options are combined.
However, the following combination cannot be achieved.

- Combination of K, L and V (All of them are auto drain and only one or the other may be attached.)

Note 2) Refer to pages 10 and 11 for further information on options.

Standard Specifications

Specifications		Standard inlet air			
		IDFB22E	IDFB37E	IDFB55E	IDFB75E
Operating ranges	Fluid	Compressed air			
	Inlet air temperature °F (°C)	41 to 122 (5 to 50)			
	Inlet air pressure psi (MPa)	22 (0.15) to 150 (1.0)			
	Ambient temperature °F (°C)	36 to 104 (2 to 40) Relative humidity of 85% or less			
Air flow capacity SCFM <small>(Note 1, 2)</small> (m ³ /h (ANR))	Outlet air pressure dew point 37°F (2.8°C)	107 (182)	161 (273)	226 (384)	300 (510)
	Outlet air pressure dew point 45°F (7.2°C)	120 (205)	173 (294)	258 (438)	353 (600)
	Outlet air pressure dew point 50°F (10°C)	130 (221)	181 (308)	297 (504)	406 (690)
Rated conditions	Operating pressure psi (MPa)	100 (0.7)			
	Inlet air temperature °F (°C)	100 (37.8)			
	Ambient temperature °F (°C)	100 (37.8)			
Electric specifications	Power supply voltage	Single-phase 115 VAC [voltage fluctuation ±10%] 60 Hz	Single-phase 230 VAC [voltage fluctuation ±10%] 60 Hz		Three-phase 460 VAC [voltage fluctuation ±10%] 60 Hz
	Operating current (A)	9	4.5	5.6	3.8
	Power consumption (W)	1000		1270	2400
	Applicable circuit breaker capacity <small>(Note 3)</small> (A)	15		10	
Condenser		Forced air-cooled			
Refrigerant		R134a (HFC)		R407C (HFC)	
Thread symbol and size	Symbol N	NPT 1 (male)	NPT 1½ (male)	NPT 2 (male)	
	Symbol Nil	R 1 (male)	R 1½ (male)	R 2 (male)	
Drain tube O.D.	Symbol N	3/8 inch			
	Symbol Nil	10 mm			
Coating color		White 1			
Mass	lbs (kg)	119 (54)	137 (62)	258 (117)	271 (123)
Compliant standards		UL, CSA			

Note 1) ANR is under the conditions of 68°F (20°C) at atmospheric pressure and relative humidity of 65%.

Note 2) Air flow capacity for each outlet air pressure dew point is indicated.

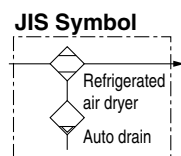
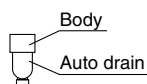
Note 3) Install a circuit breaker with a sensitivity of 30 mA.

Note 4) If this equipment suffers a short-term power outage (even if it is only momentary), it may require some time before normal operation resumes, and protective mechanisms may prevent normal operation even after the power supply has been restored.

Replacement Parts

Model		IDFB22E	IDFB37E	IDFB55E	IDFB75E
Auto drain replacement part no. <small>(Note 5)</small>	Thread symbol N	AD48N-Z			
	Thread symbol Nil	AD48			

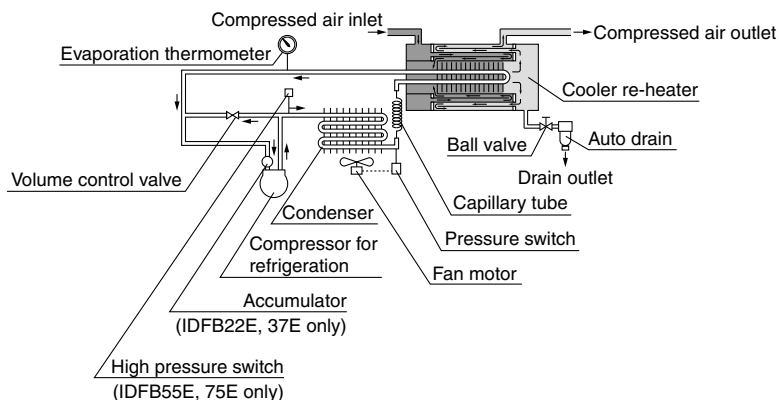
Note 5) The part number for the auto drain components without including the body part. Body part replacement is impossible.



Construction Principle (Circuit for Air/Refrigerant)

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 a drain separator (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.

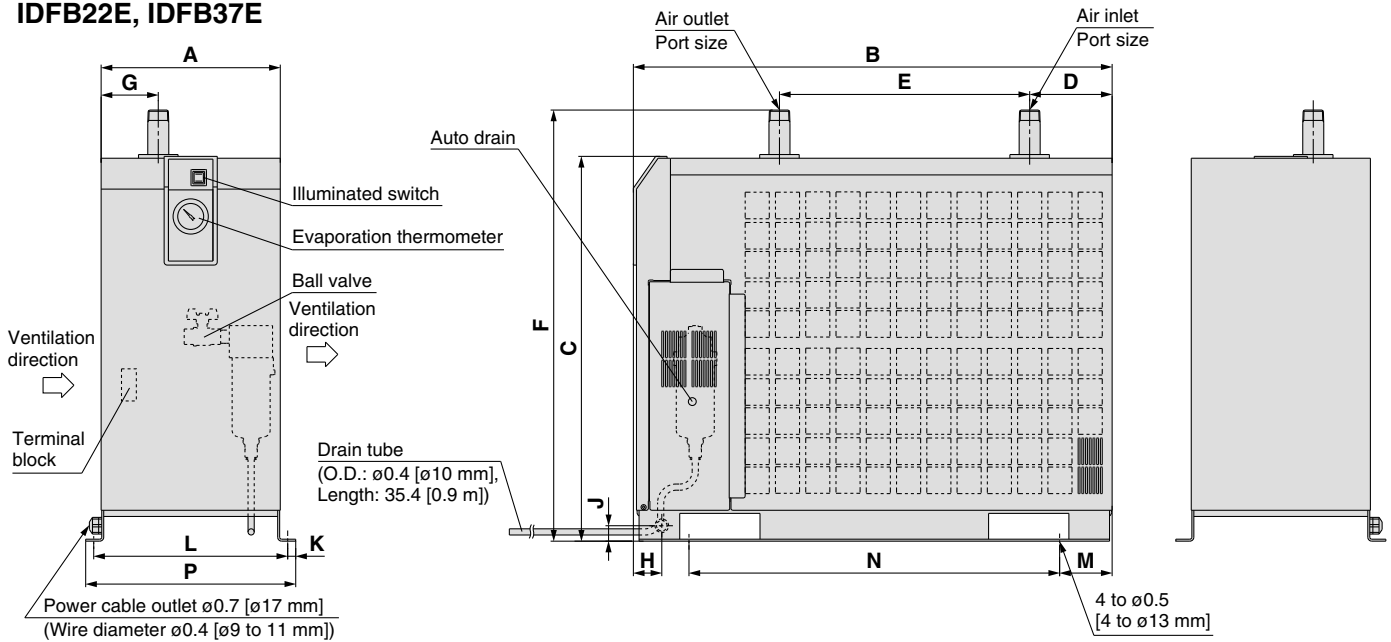
IDFB22E, IDFB37E



Series IDFB□E

Dimensions

IDFB22E, IDFB37E

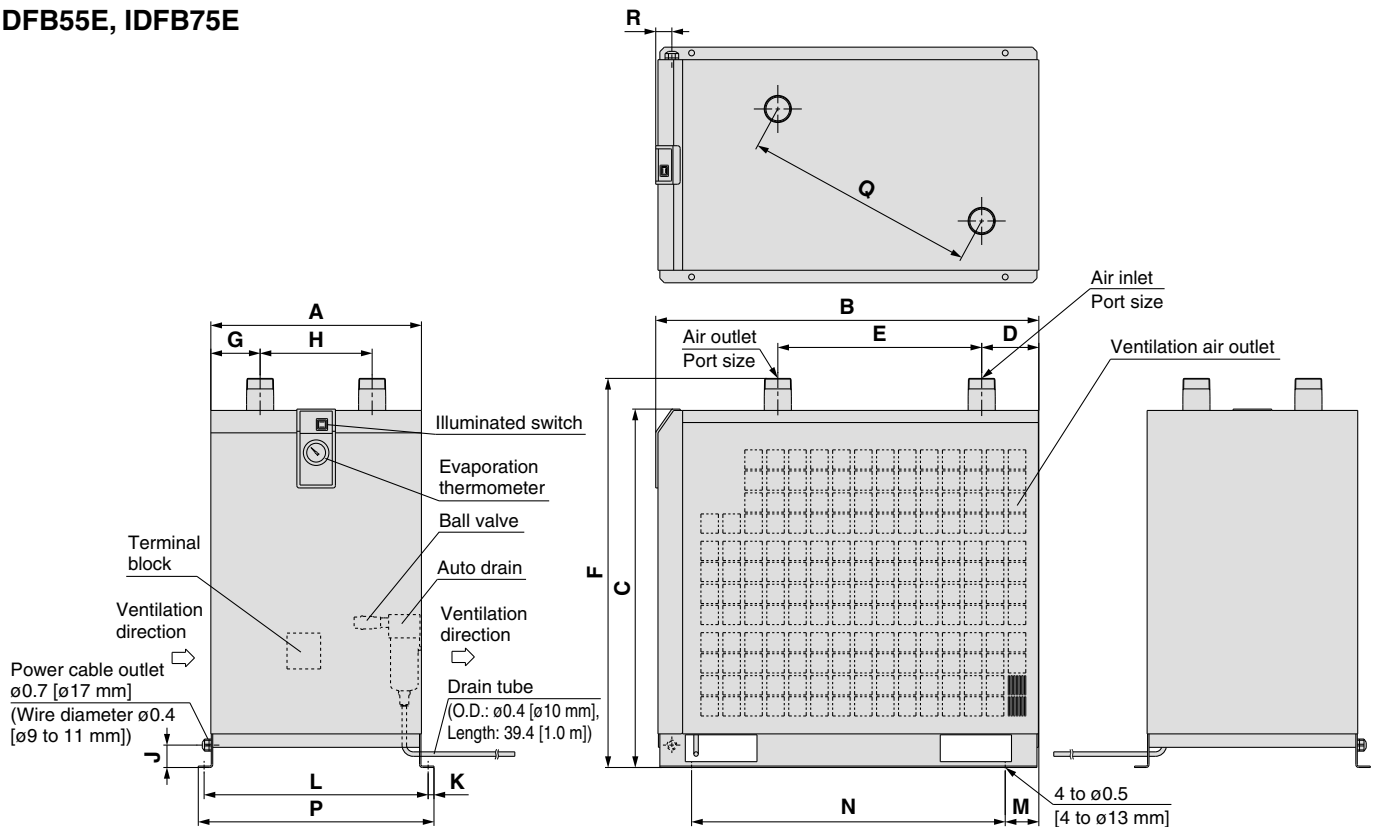


Dimensions

Unit: inch [mm]

Model	Port size	A	B	C	D	E	F	G	H	J	K	L	M	N	P
IDFB22E	1	11.4 [290]	30.5 [775]	24.5 [623]	5.3 [134]	15.9 [405]	27.5 [698]	3.7 [93]	1.8 [46]	1.0 [25]	0.5 [13]	12.4 [314]	3.3 [85]	23.6 [600]	13.4 [340]
IDFB37E	1½		33.7 [855]											26.8 [680]	

IDFB55E, IDFB75E



Dimensions

Unit: inch [mm]

Model	Port size	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R
IDFB55E	2	18.5 [470]	33.7 [855]	31.5 [800]	5.0 [128]	17.9 [455]	34.2 [868]	4.3 [110]	9.8 [250]	2 [50]	0.5 [13]	19.7 [500]	3.0 [75]	27.6 [700]	20.7 [526]	20.4 [519]	1.4 [36]
IDFB75E	2			35.4 [900]			38.1 [968]										