Refrigerant R134a (HFC)
Standard Inlet Air
Series IDFB□E
3E, 4E, 6E, 8E, 11E, 15E
(Inlet air temperature: 100°F [37.8°C])

How to Order

IDFB **11** E – **11** **N** –

Nil
A
K
R
T
V

Size

Size
3
4
6
8
11
15

Voltage

Symbol	Voltage
11	Single-phase 115 VAC (60 Hz)

Thread type

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

Note) An adapter for converting NPT to Rc is included if the thread symbol is "Nil".

Table of Options and Available Combinations (Size/Option)

Symbol Note 1) / Optional specifications / Size	Nil	A	K	R	T	V
	None	Cool compressed air output	For medium air pressure (Auto drain bowl: Metal case with level gauge)	With circuit breaker	With terminal block for run & alarm signal	Timer type solenoid valve with auto drain (Suitable for medium air pressure)
3	●	●	—	—	—	—
4	●	●	—	●	●	●
6	●	●	●	●	●	●
8	●	●	●	●	●	●
11	●	●	●	●	●	●
15	●	—	●	●	●	●

Note 1) Enter alphabetically when multiple options are combined.
However, the following combination cannot be achieved.
• Combination of K and V (Only one or the other may be attached.)
Note 2) Refer to pages 10 and 11 for further information on options.

Standard Specifications

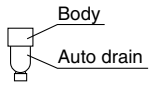
Specifications \ Model			Standard inlet air					
			IDFB3E	**IDFB4E**	**IDFB6E**	**IDFB8E**	**IDFB11E**	**IDFB15E**
Operating ranges	**Fluid**		Compressed air					
	Inlet air temperature	**°F (°C)**	41 to 122 (5 to 50)					
	Inlet air pressure	**psi (MPa)**	22 (0.15) to 150 (1.0)					
	Ambient temperature	**°F (°C)**	36 to 104 (2 to 40) Relative humidity of 85% or less					
Air flow capacity SCFM Note 1, 2) **(m³/h (ANR))**	Outlet air pressure dew point **37°F (2.8°C)**		10 (17)	15 (25)	25 (43)	41 (70)	59 (100)	71 (120)
	Outlet air pressure dew point **45°F (7.2°C)**		11 (19)	16 (27)	26 (45)	43 (74)	62 (106)	80 (136)
	Outlet air pressure dew point **50°F (10°C)**		12 (20)	17 (28)	28 (47)	45 (77)	65 (110)	86 (147)
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					
	Operating current	**(A)**	2.7	3.0	3.0	3.5	6.5	7.5
	Power consumption	**(W)**	240	260	260	310	550	750
	Applicable circuit breaker capacity Note 3)	**(A)**	15					
Condenser			Forced air-cooled					
Refrigerant			R134a (HFC)					
Thread symbol and size	**Symbol N**		NPT 3/8 (female)	NPT 1/2 (female)	NPT 3/4 (female)			NPT 1 (female)
	Symbol Nil		Rc 3/8 (female) With Rc conversion adapter	Rc 1/2 (female) With Rc conversion adapter	Rc 3/4 (female) With Rc conversion adapter			Rc 1 (female) With Rc conversion adapter
Drain tube O.D.	**Symbol N**		3/8 inch					
	Symbol Nil		10 mm					
Coating color			White 1					
Mass		**lbs (kg)**	40 (18)	55 (25)	57 (26)	64 (29)	73 (33)	110 (50)
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.

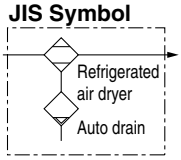
Replacement Parts

Model		IDFB3E	IDFB4E	IDFB6E	IDFB8E	IDFB11E	IDFB15E
Auto drain replacement part no. Note 5)	Thread symbol N	AD38N-Z		AD48N-Z			
	Thread symbol Nil	AD38		AD48			

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



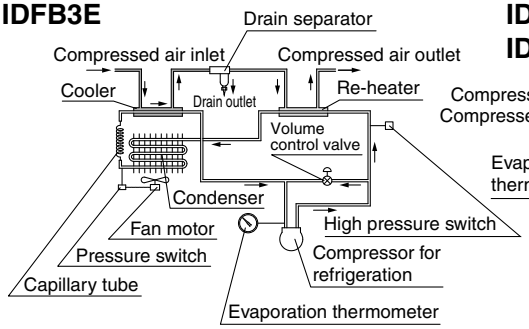
JIS Symbol



Construction Principle (Circuit for Air/Refrigerant)

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.

IDFB3E



IDFB4E, IDFB6E, IDFB8E, IDFB11E, IDFB15E