

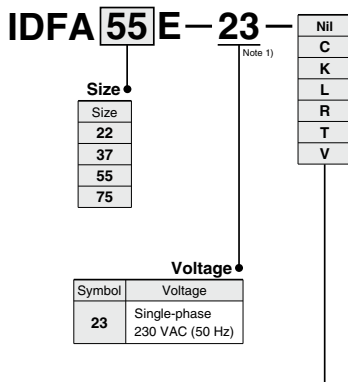
Refrigerant R407C (HFC)

Series **IDFA**□**E**

22E, 37E, 55E, 75E

(Inlet air temperature: 35°C)

How to Order



Options and Available Combinations (Size/Option)

Symbol <small>Note 2)</small>	Nil	C	K	L	R	T	V
Option	None	Anti-corrosive treatment	For medium air pressure (Auto drain bowl type: Metal bowl with level gauge)	With heavy duty auto drain (Applicable to medium air pressure)	With circuit breaker	With terminal block for run & alarm signal	Timer type solenoid valve with auto drain (Applicable to medium air pressure)
Size							
22	●	●	●	●	●	●	●
37	●	●	●	●	●	●	●
55	●	●	—	●	●	●	●
75	●	●	—	●	●	●	●

Note 1) G thread (PF thread) can accept the R thread (PT male thread), thus making no "F" in the thread specification setting.

Note 2) Enter alphabetically when multiple options are combined.

However, the following combination cannot be achieved.

- Combination of K, L and V cannot be achieved because an auto drain can only be attached to a single option.

Note 3) Refer to pages 81 and 82 for further details on optional specifications.

HAA
HAW

AT

IDF
IDU

IDFA

IDFB

IDH

ID

IDG

IDK

AMG

AFF

AM

AMD

AMH

AME

AMF

ZFC

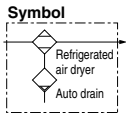
SF

SFD

LLB

AD□

GD



Standard Specifications

Specifications		Model		Standard temperature air inlet			
				IDFA22E	IDFA37E	IDFA55E	IDFA75E
Operating range (Note 1)	Fluid		Compressed air				
	Inlet air temperature (°C)		5 to 50				
	Inlet air pressure (MPa)		0.15 to 1.0				
	Ambient temperature (Humidity) (°C)		2 to 40 (Relative humidity of 85% or less)				
Rated specifications (Note 4)	Air flow capacity m³/h	Note 1) Standard condition (ANR)	Outlet air pressure dew point (3°C)	182	273	390	660
			Outlet air pressure dew point (7°C)	231	347	432	720
		Note 2) Compressor intake condition	Outlet air pressure dew point (10°C)	254	382	510	822
			Outlet air pressure dew point (3°C)	189	284	405	686
			Outlet air pressure dew point (7°C)	240	361	449	748
			Outlet air pressure dew point (10°C)	264	397	530	854
	Inlet air pressure (MPa)		0.7				
	Inlet air temperature (°C)		35				
Ambient temperature (°C)		25					
Power supply voltage		Single-phase: 230 VAC [Voltage fluctuation ±10%] 50 Hz					
Electrical parameters	Power consumption (Note 6) (W)		760		1390		1700
	Operating current (Note 6) (A)		4.3		6.1		7.9
	Applicable circuit breaker capacity (Note 5) (A)		10				20
	Condenser		Air-cooled				
Refrigerant		R407C (HFC)					
Auto drain		Float type (Normally open)					
Port size		R 1		R 1½		R 2	
Accessory		—					
Weight (kg)		54		62		100 116	
Coating color		Body panel: White 1 Base: Gray 2					
Compliant standards		EC Directive (with CE marking)					

Note 1) Air flow capacity under the standard condition (ANR) [atmospheric pressure at 20°C, relative humidity at 65%].

Note 2) Air flow capacity converted by the compressor intake condition [atmospheric pressure at 32°C, relative humidity at 75%].

Note 3) The operation range does not guarantee the use with normal air flow capacity.

Note 4) When operating conditions are different from the rated specifications, please select a model in accordance with the Model Selection (Page 71).

Note 5) Product other than the option R is not equipped with an earth leakage breaker. Please purchase an appropriate earth leakage breaker separately.

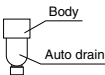
Note 6) These values are reference values under rated conditions, and are not guaranteed. Do not use these values for the thermal set values, etc.

Note 7) When a short-term interruption of the power supply (including momentary interruption) occurs in this equipment, the restarting of normal operations may require some time or may be impossible due to the operation of protective devices even after the supply of power returns.

Replacement Parts

Model	IDFA22E	IDFA37E	IDFA55E	IDFA75E
Auto drain replacement part no. (Note 8)	AD48			

Note 8) The part number for the auto drain components without including the body part.
Body part replacement is impossible.



Construction Principle (Air/Refrigerant Circuit)

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 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.

IDFA22E, IDFA37E,
IDFA55E, IDFA75E

