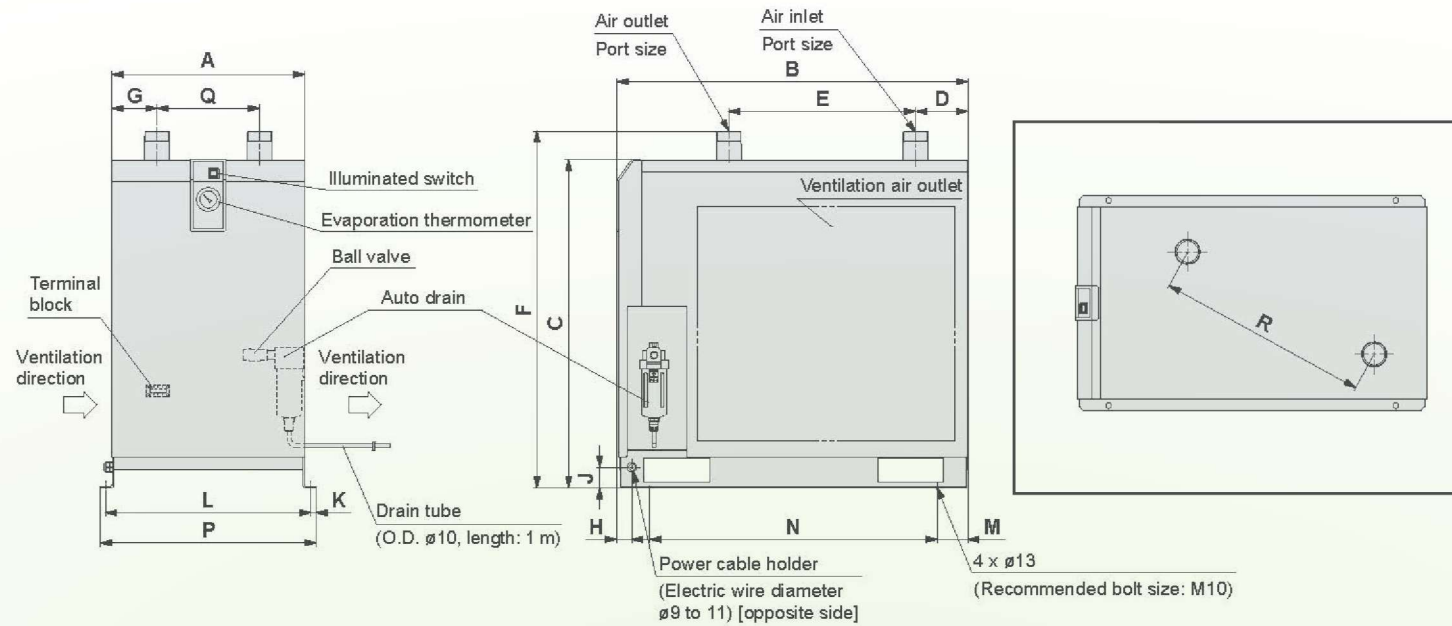


IDFA55E to 75E



Dimensions		(mm)															
Model	Port size	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R
IDFA55E	R 2	470	855	800	128	455	868	110	36	50	13	500	75	700	526	250	519
IDFA75E				900			968										

Model Selection Guide

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

- 1 Read the correction factor.**
Obtain the correction factor A to D suitable for your operating condition from the table below.
- 2 Calculate the corrected air flow capacity.**
Obtain the corrected air flow capacity from the following formula.
Corrected air flow capacity = Air consumption ÷ (Correction factor A x B x C)
- 3 Select the model**
Select the model which air flow capacity exceeds the corrected air flow capacity using the specification table. For air flow capacity, refer to the data D below)

Data A:
Inlet Air Temperature

Inlet air temperature (°C)	Correction factor
5 to 25	1.30
30	1.25
35	1
40	0.83
45	0.7
50	0.6

Data C:
Inlet Air Pressure

Inlet air pressure (MPa)	Correction factor	
	IDFA3E~11E	IDFA15E~75E
0.3	0.8	0.72
0.4	0.87	0.81
0.5	0.92	0.88
0.6	0.96	0.95
0.7	1.00	1.00
0.8	1.04	1.06
0.9	1.07	1.11
1.0	1.1	1.16
1.2	1.16	1.21
1.4	1.21	1.25
1.6	1.25	1.27

Data B:
Ambient Temperature

Ambient temperature (°C)	Correction factor	
	IDFA3E~11E	IDFA15E~75E
20	1.1	1.1
25	1	1
30	0.91	0.97
35	0.83	0.89
40	0.79	0.77

Data D:
Air Flow Capacity

Model	Outlet air pressure dew point	Air flow capacity (ℓ/min) [ANR]									
		IDFA3E	IDFA4E	IDFA6E	IDFA8E	IDFA11E	IDFA15E	IDFA22E	IDFA37E	IDFA55E	IDFA75E
3°C	200	400	600	1083	1333	2000	3033	4550	6500	11000	
7°C	250	516	766	1383	1683	2533	3850	5783	7200	12000	
10°C	283	566	833	1516	1866	2800	4233	6366	8500	13700	



Refrigerated Air Dryer

Series IDFA□E



NEW Series IDFA

Air flow capacity
Increased up to the
max 40%
(SMC comparison)

Power consumption
Decreased up to the
max 40%
(SMC comparison)

Refrigerant
R134a (HFC)
R407C (HFC)
Coefficient of destruction for ozone is zero

Heat exchanger
Improved corrosion resistance with the use of stainless steel, plate type heat exchanger (IDFA4E to 75E)

Built-in auto drain

Previous IDF



External mounting auto drain

New IDFA



Built-in auto drain

SMC REGIONAL SUPPORT

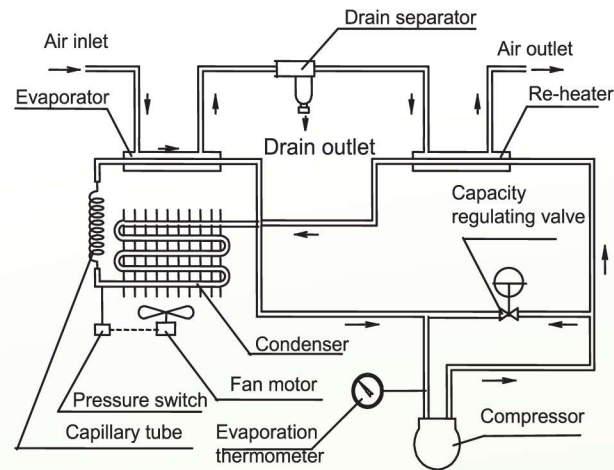
Singapore Tel : (+65) 6861 0888 Email : sales@smcsing.com.sg	United Arab Emirates Tel : (+971) 4 801 5900 Email : sales@smcdubai.ae	MALAYSIA Tel : (+603) 5635 0590 Email : sales@smcmy.com.my	Vietnam Tel : (+84) 28 628 111 10 Email : sales@smc-vietnam.com.vn
Indonesia Tel : (+62) 21897 1123 Email : sales@smcid.co.id	Philippines Tel : (+63) 02 809 0565 Email : sales@shoketsu-smc.com.ph	Distributor	

Specification	Model	IDFA3E	IDFA4E	IDFA6E	IDFA8E	IDFA11E	IDFA15E	IDFA22E	IDFA37E	IDFA55E	IDFA75E
Rated Condition	Air Flow Rate (ANR) (Note 1) l/min	283	566	833	1516	1866	2800	4233	6366	8500	13700
	At Outlet Pressure Dew Point of 10°C										
	Operating Pressure (Mpa)	0.7									
	Inlet Air Temperature (°C)	35									
	Ambient Temperature (°C)	25									
Operating Range	Working Fluid	Compressed Air									
	Inlet Air Temperature (°C)	5 to 50									
	Inlet Air Pressure (MPa)	0.15 to 1.0									
	Ambient Temperature (°C)	2 to 40 (Relative Humidity of 85% or less)									
Electric Specification	Power supply voltage	Single -phase 230VAC ±10% 50Hz									
	Operating Current (Note 2) (A)	1.2	1.2	1.2	1.4	2.7	3.0	4.3	5.4	7.9	
	Power Consumption (Note 2) (W)	180	180	180	208	385	470	760	1130	1700	
	Circuit Breaker (Note 3) (A)	5									
Condenser		Air-cooled type									
Refrigerant		R134A (HFC)					R407C (HFC)				
Auto drain (Float type)		AD38 (normally closed)					AD48 (normally open)				
Port size		Rc 3/8	Rc 1/2	Rc 3/4			Rc 1	R 1	R 1 1/2	R 2	
Accessory (kg)		Hexagon nipple									
Weight (kg)		18	22	23	27	28	46	54	62	100	116
Coating color		Body panel: White 1 Base : Gray 2									
Compliant standards		EU directive compliant (with CE marking)									
Applicable Compressor kW (Standard)		2.2	3.7	5.5	7.5	11	15	22	37	55	75

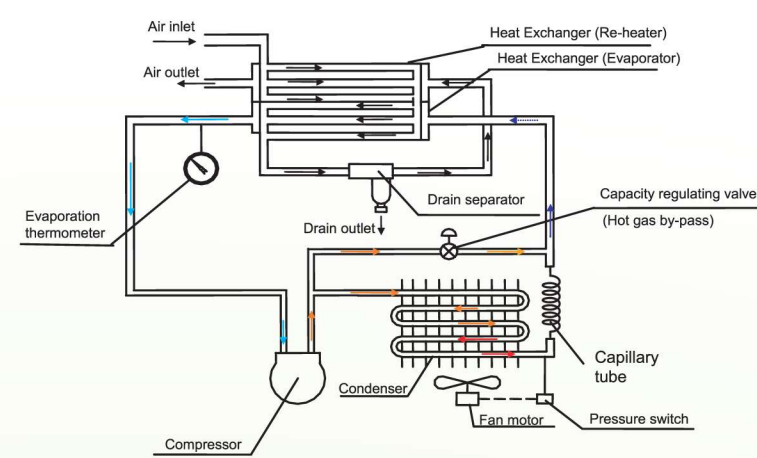
Note 1: The data for l/min (ANR) is referring to the conditions of 20°C, 1atm. Pressure & relative humidity of 65%.
 Note 2: the value is that of under specified condition.
 Note 3: Install GFCI breaker that comes with sensitivity of 30mA
 Note 4: When short period power shortage (including instantly recovered shortage) is recovered. It may take a longer starting period the un-usual starting or may not start due to the protective devices.

Construction Principle (Circuit for Air / Refrigerant)

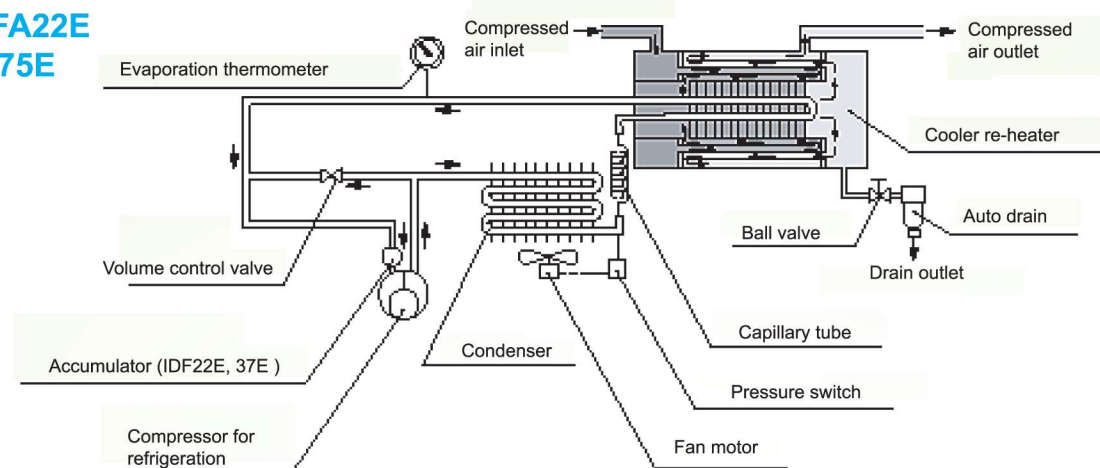
IDFA3E



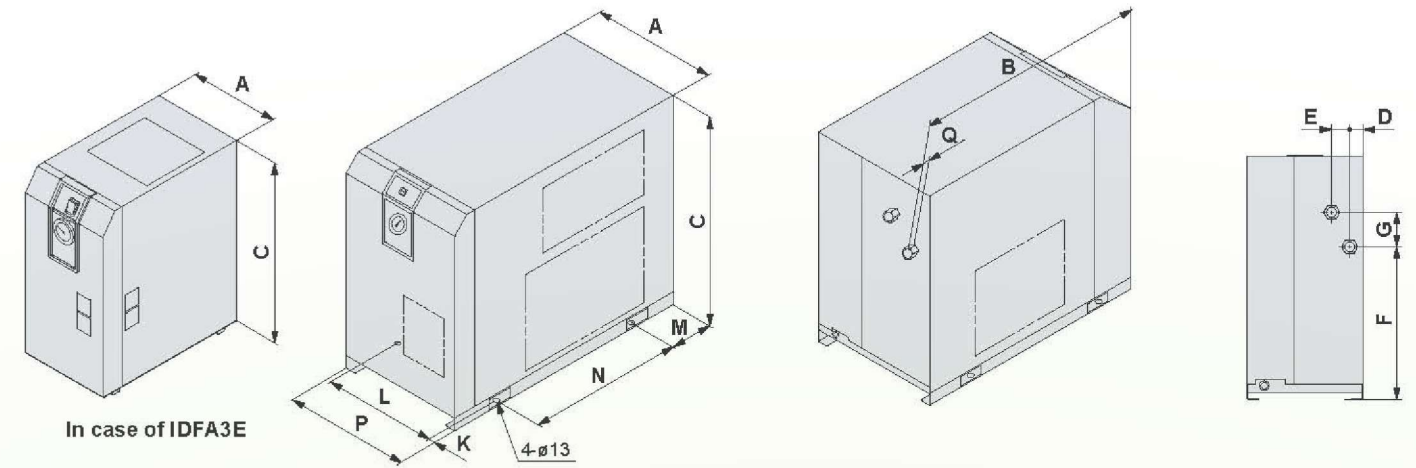
IDFA4E to 15E



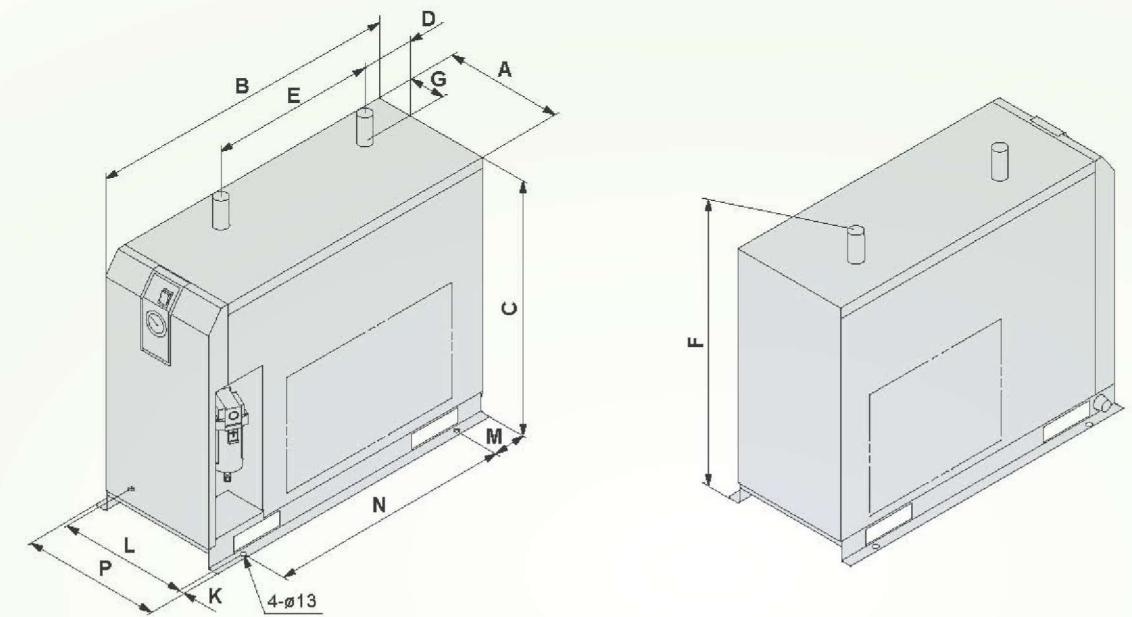
IDFA22E to 75E



IDFA3E to 15E



IDFA22E to 37E



Dimensions

Model	Port size	A	B	C	D	E	F	G	K*	L*	M*	N*	P	Q
IDFA3E	Rc 3/8	226	410	473	67	125	304	33	36	154	21	330		15
IDFA4E	Rc 1/2		453	498			283					275		13
IDFA6E			455	498				80	15	240	80			
IDFA8E	Rc 3/4	270	485	568	31	42						300		15
IDFA11E														
IDFA15E	Rc 1	300	603	578	41	54	396	87		270	101	380	314	16
IDFA22E	R 1		775	623	134	405	698	93	13	314	85	600		
IDFA37E	R 1 1/2	290	855									680	340	-

* Meaning the foot dimensions for the IDFA3.