EG-Konformitätserklärung Typ: im Sinne der EG-Richtlinie 2006/42/EG über Maschinen =]||7 MEDICUS D 400 / 250 Fabrik-Nr.: 82631 Name und Anschrift des Herstellers Überdruck: 7 bar Baujahr: 2017 Ansaugleistg.: 400 l/min Stufen: 1 Drehzahl: 1400 U/min BlitzRotary GmbH Motor: 2 x 1,5 KW Hüfinger Str.55 78199 Bräunlingen, Germany CE BlitzRotary GmbH · Hüfinger Strasse 55 · 78199 Bräunlingen

Diese Erklärung bezieht sich nur auf die Maschine in dem Zustand, in dem sie in Verkehr gebracht wurde; vom Endnutzer nachträglich angebrachte Teile und/oder nachträglich vorgenommene Eingriffe bleiben unberücksichtigt. Die Erklärung verliert ihre Gültigkeit, wenn das Produkt ohne Zustimmung umgebaut oder verändert wird.

Hiermit erklären wir, dass die nachstehend beschriebene Maschine

Produktbezeichnung Serien- / Typenbezeichnung	Kolbenkompressor	
VARIS VERSA	VDZ; VDZH; VDZS; VDZHS; VDZD; VDZHD; VGZ; VGZH DZ; DZH; DZS; DZHS; GZ; GZH; DZHP; GZHP; HV; NV; DZNT; DZNDT; GZNT; GKTE; GKTZ; GKTZH	ł; VZ; VZH
TWIN	Airmobil; Airstation; Hobby; Maximat; Maximat Pro; Kitty II; DKD; DET; DEDT; GET; BKE; BKZ; BKES; BKZS; GKE; (
FORMULA TOURING	28M; 36M; 57M; 38H; 52H; 65H; 38V; 52V; 65V GT30H; GT42H; GT50H; GT32V; GT42V; GT50V;	
Maschinen- / Seriennummer Baujahr :		1997 - 1997 -

allen einschlägigen Bestimmungen der Maschinenrichtlinie 2006/42/EG entspricht. Die Maschine entspricht zusätzlich den Bestimmungen der Richtlinien 2004/108/EG über elektromagnetische Verträglichkeit und 2006/95/EG über elektrische Betriebsmittel EG (Schutzziele wurden gemäß Anhang I, Nr. 1.5.1 der Maschinenrichtlinie 2006/42/EG eingehalten).

Die Maschine entspricht zusätzlich den Bestimmungen 2009/105/EG über einfache Druckbehälter.

Angewandte harmonisierte Normen

EN 1012-1 : 2010	Kompressoren und Vakuumpumpen - Sicherheitsanforderungen
EN 60204-1: 2006+A1:2009	Sicherheit von Maschinen - Elektrische Ausrüstungen von Maschinen
EN ISO 12100:2010	Sicherheit von Maschinen - Grundbegriffe

Angewandte sonstige technische Normen und Spezifikationen

Bevollmächtigter für die Zusammenstellung der relevanten technischen Unterlagen: BlitzRotary GmbH; Hüfinger Str. 55, 78199 Bräunlingen

Ort : Datum : Bräunlingen 19.03.2013

Frank Scherer Geschäftsführer / Managing Director



16 bar operating pressure

60 to 2.760 Nm³/h volume flow rate

3/8" to 3" connections

1,5 to 65 ℃ operating temperature range

RAL 5012 standard colour

DESCRIPTION

AF filters are designed for protection of the downstream compressed air system and equipment against defects and other failures.

They ensure high efficient removal of solid particles, water, oil aerosols, hydrocarbons, odour and vapours from compressed air systems up to 16 bar. For any other technical gas please contact producer or your local distributor

Required compressed air quality according to standard ISO 8571-1 can be achieved with 9 different grades of filter elements (B, P, R, M, S, A, A², H² and MS²).

Optional internal and external condensate drains should be used for efficient condensate draining from filter housing.

AF SERIES **ALUMINIUM COMPRESSED AIR FILTERS**



APPLICATIONS

- General industrial applications
- Automotive
- Electronics
- Food and beverage • Chemical
- Petrochemical • Plastics
- Paint



			TECH	INICAL D	ATA					FILTER ELEMENTS								
Filter housing size	Pipe size	Max. oper. press.	Flow at 7 bar(Dimensic	ons (mm)		Mass	B sintered 15 µm	P prefilter 3 µm	R prefilter 1 µm	M microfilter 0,1 µm	S microfilter 0.01 um	A activated carbon	4) A ² adsorption (act. carbon)	4) H ² catalyst (hopcalite)	4) MS² molecular sieve
5120	inch	[bar/psi]	Nm³/h	scfm	A	В	C	D	kg	inų ci	э µш	r pini	υ,ι μπ	υ,υτμιπ	Ldi DUll		(nopcance)	Sieve
AF 0056	3/8"	16/232	60	35	192	88	25	60	0,6	06050 B15	06050 P	06050 R	06050 M	06050 S	06050 A	-	-	-
AF 0076	1/2"	16/232	78	46	192	88	25	60	0,6	07050 B15	07050 P	07050 R	07050 M	07050 S	07050 A	07050 A ²	07050 H ²	07050 MS ²
AF 0106	3/4"	16/232	120	70	262	88	25	80	0,7	14050 B15	14050 P	14050 R	14050 M	14050 S	14050 A	14050 A ²	14050 H ²	14050 MS ²
AF 0186	1"	16/232	198	116	264	125	39	100	1,2	12075 B15	12075 P	12075 R	12075 M	12075 S	12075 A	12075 A ²	12075 H ²	12075 MS ²
AF 0306	1"	16/232	335	197	364	125	39	120	1,6	22075 B15	22075 P	22075 R	22075 M	22075 S	22075 A	22075 A ²	22075 H ²	22075 MS ²
AF 0476	11/2"	16/232	510	300	464	125	39	140	1,9	32075 B15	32075 P	32075 R	32075 M	32075 S	32075 A	32075 A ²	32075 H ²	32075 MS ²
AF 0706	1 ¹ / ₂ "	16/232	780	459	644	125	39	160	2,6	50075 B15	50075 P	50075 R	50075 M	50075 S	50075 A	50075 A ²	50075 H ²	50075 MS ²
AF 0946	2"	16/232	1000	588	696	164	50	520	5,7	51090 B15	51090 P	51090 R	51090 M	51090 S	51090 A	-	-	-
AF 1506	2"	16/232	1500	882	943	164	50	770	7,6	76090 B15	76090 P	76090 R	76090 M	76090 S	76090 A	-	-	-
AF 1756	2 ¼"	16/232	1680	990	943	164	50	770	7,3	76090 B15	76090 P	76090 R	76090 M	76090 S	76090 A	-	-	-
AF 2006	3"	16/232	2160	1270	801	242	60	630	14,1	51140 B15	51140 P	51140 R	51140 M	51140 S	51140 A	-	-	-
AF 2406	3"	16/232	2760	1620	998	242	60	780	16,7	75140 B15	75140 P	75140 R	75140 M	75140 S	75140 A	-	-	-
		в				quality	class – so	olids (ISO	8573 - 1)	7	6	3	2	1	1 ³⁾	1 ³⁾	1 ³⁾	1
-						res	sidual oil	content	[mg/m³]	-	-	-	<0,1	<0,01	<0,005	<0,005	-	-
0	ĹΠ	Γ	1			quali	ty class -	oils (ISO	8573 - 1)	-	-	-	2	1	1	0/1	-	-
					pressu	ire drop -	new eler	nent (mt	oar / psi]	20 / 0,290	10 / 0,145	20 / 0,290	50 / 0,725	80 / 1,160	60 / 0,870	see spec.	see spec.	< 50 / 0,725
				change	filter car	tridge at I	pressure	drop (mt	oar / psi]	1)	350 / 5,07	350 / 5,07	350 / 5,07	350 / 5,07	6 months ²⁾	6 months ²⁾	6 months ²⁾	
								<i></i>		sintered	acrylic fibres.		borosilicate			borosilicate	micro fibres	
∢								filter	material	brass	cellulose		micro fibres		activ. carbon	activ. carbon	hopcalite	molecular sieve
								pleater	d version	-	✓	✓	✓	✓	-	✓	~	✓
				wrapped version					d version	-	-	-	-	-	✓	-	-	-
+		TR.		sintered version						✓	-	-	-	-	-	-	-	-
t					mi	in, operat	ing temp	erature	(°C / °F <u>)</u>	1,5 / 35	1,5 / 35	1,5 / 35	1,5 / 35	1,5 / 35	1,5 / 35	1,5 / 35	1,5 / 35	1,5 / 35
		· · · · · · · · ·			ma	Ix. operat	ing temp	erature	(°C / °F)	65 / 149	65 / 149	65 / 149	65 / 149	65 / 149	45 / 113	45 / 113	45 / 113	45 / 113
///	/////	//////	/															

						CORRECT	ION FACTO	RS							
Operating pressure [bar]	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Operating pressure [psi]	29	44	58	72	87	100	115	130	145	160	174	189	203	218	232
Correction factor	0,38	0,50	0,63	0,75	0,88	1	1,13	1,25	1,38	1,50	1,63	1,75	1,88	2,00	2,13

¹⁰ "B" filter element can be cleaned with ultrasonic bath or with back flushing. Intervals of cleaning depends of application. If necessary replace filter element with new one.

²⁾ Filter elements "A, A², H²", must be changed periodically to suit application, but at least every 6 months. Activated carbon filters must not operate in oil saturated conditions.

³⁾ Valid if "S" filter cartridge is installed upstream.
 ⁴⁾ For elements A², H² and MS² it is necessary to reduce the flow according to technical data sheet specification.



EU DECLARATION OF CONFORMITY

Original declaration

SMC Corporation

4-14-1 Soto-Kanda, Chiyoda-ku, Tokyo 101-0021 Japan

declares under its sole responsibility, that the following equipment:

Refrigerated Air Dryers

IDFA3E, 4E, 6E, 8E, 11E, 15E, 15E1, 22E, 37E, 55E, 75E, 100F, 125F, 150F Series Serial No.: VU0001 onwards

is in conformity with the relevant Union harmonisation legislation and has been demonstrated to fulfil the requirements with reference to the harmonised standard(s) as listed below

Directive	Requirements	Harmonised standards
Machinery Directive 2006/42/EC	All applicable Essential Health and Safety Requirements of Annex I	EN / ISO 12100:2010 EN 60204-1:2006 + A1:2009
EMC Directive 2014/30/EU	Essential requirements set out in Annex I	EN 61000-6-2:2005 EN 61000-6-4:2007 + A1:2011 EN 61000-3-2:2006 + A2:2009 EN 61000-3-3:2008
RoHS Directive 2011/65/EU	Restriction of substances as set out in Annex II	EN50581:2012

Name and address of the person authorised to compile the technical file: Mr. G. Berakoetxea, Executive Officer, SMC European Zone, SMC España, S.A,.Zuazobidea 14, 01015 Vitoria, Spain

Importer/Distributor in EU and EFTA:

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Belgium	SMC Pneumatics N.V./S.A.	(32) 3-355-1464	Nijverheidsstraat 20, B-2160 Wommelgem
Bulgaria	SMC Industrial Automation Bulgaria EOOD	(359) 2 9744492	Business Park Sofia, Building 8-6th Floor, BG-1715 Sofia
Croatia	SMC Industrijska Automatika d.o.o.	(385) 1 370 72 88	Zagrebačka Avenija 104,10 000 Zagreb
Czech Republic	SMC Industrial Automation CZ s.r.o.	(420) 541-424-611	Hudcova 78a CZ-61200 Brno
Denmark	SMC Pneumatik A/S	(45) 70 25 29 00	Egeskovvej 1, DK-8700 Horsens
Estonia	SMC Pneumatics Estonia OÜ	(372) 651-0370	Laki 12, EE-10621 Tallinn
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Latvia	SMC Pneumatics Latvia SIA	(371)781-77-00	Dzelzavas str. 120g, Riga, LV-1021
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Slovakia	SMC Priemyselna Automatizacia, Spol s.r.o.	(421) 41-321321-1	Fantranská 1223, Teplicka nad vahom, 01301
Slovenia	SMC Industrijska Avtomatika d.o.o.	(386) 7388 5412	Mirnska cesta 7, SLO-8210 Trebnje
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Tokyo, 22nd July 2017

Hiroyuki Sakama

General Manager Product Development Division -VI



Refrigerated Air Dryer Series IDFA

IDFA6E



IDFA6E

Ozone friendly refrigerants

Conforms to stringent ISO8573-1 standards

EVAPORATING TEMP

Series IDFA Refrigerated Air Dryer

High performance, reliable and trouble free com

- State of the art design ensures a constant 3°C pressure dew point.
- Environmentally ozone friendly HFC134a and HFC407C refrigerant.
- Simple control system, incorporating an easy to read evaporator gauge.
- Stainless steel heat exchanger providing long life and low pressure drops.
- Compact design for ease of installation.
- ø10 mm One-touch condensate drain port.

Standard Specifications

		Operating range		Power	Power	Airport		Waight
Model	Inlet air pressure (bar)	Inlet air temperature (°C)	Ambient temperature (°C)	supply voltage	consumption (W)	Air port connections	Refrigerant	Weight (kg)
IDFA3E-23	1.5 to 10					Rc 3/8		18
IDFA4E-23	1.5 10 10				180	Rc1/2		22
IDFA6E-23-K			2 to 40	Single Phase			HFC134a	23
IDFA8E-23-K		5 to 50	(Relative humidity	230 VAC	208	Rc 3/4		27
IDFA11E-23-K	1.5 to 16	51050	of 85% or less)	50Hz	385			28
IDFA15E-23-K	1.5 10 10			00112	470	Rc 1		46
IDFA22E-23-K					760	R 1	HFC407C	54
IDFA37E-23-K					760	R 1 1/2	111 04070	62

Note) Thread adapters to convert Rc thread to R thread are included with IDFA3E to IDFA15E.

Nominal Air Flow Rate [m³/h (ANR)]

	ISC	8573.1 Water vapour c	lass
Model	4	5	6
	(3°C Pressure dew point)	(7°C Pressure dew point)	(10°C Pressure dew point)
IDFA3E-23	12	15	17
IDFA4E-23	24	31	34
IDFA6E-23-K	36	46	50
IDFA8E-23-K	65	83	91
IDFA11E-23-K	80	101	112
IDFA15E-23-K	120	152	168
IDFA22E-23-K	182	231	254
IDFA37E-23-K	273	347	382

Note 1) The standard condition (ANR) is under the conditions of 20°C at atmospheric preessure and relative humidity of 65%. Note 2) The performance data for pressure dew point is in accordance with the following operating conditions from ISO 7183:

• Inlet air pressure: 7 bar

Inlet air temperature: 35°C (saturated)
Cooling air temperature: 25°C

Correction Factors

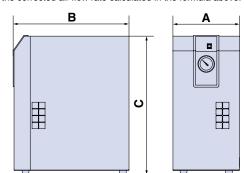
Inlet air temperature (°C)	5 to 25	30	35	40	45	50									
Correction factor A	1.30	1.25	1.00	0.83	0.70	0.60									
Ambient temperature (°C)			20	25	30	35	4	0							
O and the factor D	IDFA3E	to 11E	1.1) 1.0	0.9	1 0.8	3 0.7	79							
Correction factor B	IDFA15	E to 37	1.1	0 1.0	0.9	7 0.8	9 0.7	77							
Inlet air pressure (bar)			3	4	5	6	7	8	9	10	11	12	13	14	Γ
Correction factor C	IDFA3E	to 11E	0.8	0.87	0.92	0.96	1.00	1.04	1.07	1.10	1.13	1.16	1.18	1.21	-
	IDFA15	E to 37	0.7	2 0.81	0.88	0.95	1.00	1.06	1.11	1.16	1.19	1.21	1.23	1.25	

Corrected air flow rate = Customer's air flow rate/Factor A x Factor B x Factor C.

Select a model with a nominal air flow rate higher than the corrected air flow rate calculated in the formula above.

Dimensions (mm)

Model	Α	В	С	
IDFA3E-23	226	410	473	
IDFA4E-23		453	498	
IDFA6E-23-K	270	455	490	
IDFA8E-23-K	210	485	568	
IDFA11E-23-K		460	500	
IDFA15E-23-K	300	603	578	
IDFA22E-23-K	290	775	623	
IDFA37E-23-K	200	855	023	



1.13 1.16 1.18 1.21 1.23

15

16

1.25

1.26 1.27







pressed air treatment from SMC

The new SMC IDFA Series of refrigerated air dryers are the result of over 40 years experience combined with the latest compressed air and refrigeration technology.



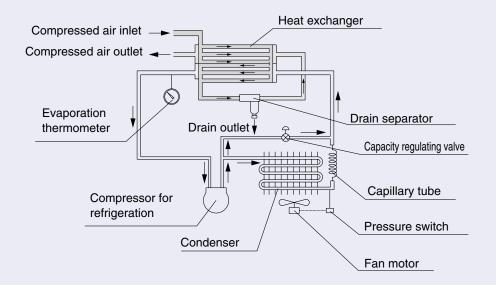


Built to international standards, and backed by SMC's BS EN ISO 9001 quality certification, the IDFA Series has eight standard models with nominal capacities from $12 \text{ m}^3/\text{h}$ to $382 \text{ m}^3/\text{h}$.

Operation Principle

Saturated compressed air enters the air-to-air heat exchanger, the incoming air is then precooled by the cold air exiting the dryer. The air then passes through the evaporator, where it is further cooled, to a 3°C dew point. As the air cools, the water condenses from a vapour to a liquid which is removed by the automatic drain.

The dry air is then passed back through the air-to-air heat exchanger where it is reheated before leaving the dryer.







Additional Products



Series AFF **Main Line Filter**

- General purpose 3 micron filter. • Die-cast aluminium body with
- chromate treatment.
- Cartridge type element with no screw threads or tie rods, therefore removal and replacement of element is quick and easy.
- Option for differential pressure indicator.
- · Option for internal auto-drain.
- · Built-in push-to-connect fitting on drain.



Series AMD

Micro Mist Separator

- 0.01 micron high efficiency oil removing filter.
- Die-cast aluminium body with chromate treatment.
- · Cartridge type element with no screw threads or tie rods, therefore removal and replacement of element is quick and easy.
- Option for differential pressure indicator.
- Option for internal auto-drain.
- Built-in push-to-connect fitting on drain.

Series AMF **Odour Removal Filter**

- Activated carbon filter.
- · Die-cast aluminium body with chromate treatment.
- · Cartridge type element with no screw threads or tie rods, therefore removal and replacement of element is quick and easy.
- . Two sight glasses are fitted to the housing to give a visual indication of the filter operation and condition.



- **Membrane Air Dryer**
 - -15°C, -20°C, -40°C and -60°C. pressure dew points.
 - Option for dew point indicator that confirms air drying at a glance.
 - · Compact and lightweight.
 - · Also available with fittings for purge air discharge.
 - · Discharged air noise reduced with built-in silencer.
 - Environmentally friendly (non-freon).
 - · Power supply not required.
 - No vibration or heat discharge.
 - · Compatible with low dew points.

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Slovakia	🖀 +421 244456725	www.smc.sk	office@smc.sk							
Slovenia	🖀 +386 73885249	www.smc.si	office@smc.si							
Spain	🖀 +34 945184100	www.smces.es	post@smc.smces.es							
Sweden	# +46 (0)86031200	www.smc.nu	post@smcpneumatics.se							
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Turkey	+90 (0)2122211512	www.entek.com.tr	smc-entek@entek.com.tr							
UK	+44 (0)8001382930	www.smcpneumatics.co.uk	sales@smcpneumatics.co.uk							
		European Market	ing Centre 🖀 +34 9451	8/10	0 1	www.smce	u com	_		

European Marketing Centre +34 945184100 www.smceu.com SMC CORPORATION **2** +81 0335022740 www.smcworld.com SMC CORPORATION Akihabara UDX 15F, 4-14-1, Sotokanda, Chiyoda-ku, Tokyo 101-0021, JAPAN Phone: 03-5207-8249 FAX: 03-5298-5362

Gedruckt in Spanien

Die Daten können ohne vorherige Ankündigung und ohne, dass dem Hersteller daraus Verpflichtungen entstehen, geändert werden.



ZERTIFIKAT

Die Zertifizierungsstelle der TÜV SÜD Management Service GmbH

bescheinigt, dass das Unternehmen

BlitzRotary GmbH

Hüfingerstr. 55 • 78199 Bräunlingen Deutschland

für den Geltungsbereich Entwicklung, Herstellung und Vertrieb von Drucklufttechnik, Fahrzeug-Hebetechnik, Reifenfülltechnik, Messtechnik, Batterieservicetechnik, Sonderwerkzeuge

> Waltersbündt 3 • 77749 Hohberg-Hofweier Deutschland

> > für den Geltungsbereich

Herstellung und Vertrieb von Fahrzeug-Hebetechnik, Reifenwucht-, Montier- und Messtechnik

ein Qualitätsmanagementsystem eingeführt hat und anwendet.

Durch ein Audit, Bericht-Nr. **707089175**, wurde der Nachweis erbracht, dass die Forderungen der

ISO 9001:2015

erfüllt sind.

Dieses Zertifikat ist gültig vom **25.04.2018** bis **24.04.2021**. Zertifikat-Registrier-Nr.: **12 100 55701 TMS**.

Meg

Product Compliance Management München, 25.04.2018



BlitzRotary GmbH

certifies that the company

CERTIFICATE

EN ISO 14001

ÖKOZE

D-78199 Bräunlingen

<u>Re the area of applicability:</u> Development, production and sales of compressed air technology, vehicle lifting technology, tire inflation technology, measurement echnology, battery service technology, special toolsComplete company

has established and applies a environment system according to EN ISO 14001:2015

The proof was furnished by certification audit and written in report - no.**ÖK 180425po1**

Date of the first certification: **2014-08-27**

2018-04-25

Date of the recertification: Registrations-no.: 205372

Valid until: 2021-04-24

ÖKO - ERT Gerhard Dischke

D-72766 Reutlingen • Grüner Weg 60 • Tel 0049 7121 263 94 53



Certificate

Awarded to

OMEGA AIR d.o.o. Ljubljana

CESTA DOLOMITSKEGA ODREDA 10, 1000 LJUBLJANA, SLOVENIA and site: PE LOGATEC, Obrtna cona Logatec 20, 1370 Logatec, Slovenia

Bureau Veritas Certification Holding SAS – UK Branch certify that the Management System of the above organization has been audited and found to be in accordance with the requirements of the management system standard detailed below

STANDARD

ISO 9001:2015

SCOPE OF CERTIFICATION

DEVELOPMENT, DESIGN, PRODUCTION, SALES AND SERVICE OF EQUIPMENT AND SYSTEMS FOR COMPRESSED AIR AND OTHER GASES, FILTRATION AND SEPARATION OF GASES AND LIQUIDS

Original certification date: 16/09/2003

Certification cycle start date: 16/09/2018

Subject to the continued satisfactory operation of the organization's Management System, this certificate expires on: 15/09/2021

Certificate number: SL22594Q

Version number: 01 Revision date: 12/09/2018



Certification body address: 5th Floor, 66 Prescol Street, London, E1 8HG, United Kingdom Local office: Linhartora cesta 49a, 1000 Ljubljana, Slovenia

Further clarifications regarding the scope of this certificate and the applicability of the management system requirements may be obtained by consulting the argunization.

To check this certificate validity please call: + 386 1 47 57 670.

Page 1 of 1



0008

TWIN piston compressor, oil free Medicus D 400/90



DESCRIPTION

TWIN piston compressors from BLITZ offer power capacity and heavyduty performance at an attractive price. For all compressed air users with high demands and daily application needs.

Trade compressors of the TWIN series are available as oil-lubricated or oil-free models, each either stationary or mobile. The TWIN Aerostation offers a totally economical solution comprising of compressor, refrigerated air dryer, oil water separator and automatic condensate drain.

- **Air aftercooler:** For all TWIN piston compressors efficient aftercoolers and intermediate- coolers ensure low air outlet temperatures. This strongly reduces the need for further air processing.
- **2 Stage design:** Almost all the TWIN piston compressors are manufactured with the special 2-stage design. Low thermal and mechanical load leads to much higher efficiency and ca. 25% energy conservation.
- Electric motors from reputable manufacturers: TWIN piston compressors are produced to a level of high quality. This includes the application of IP 54 tested electric motors with ISO F-winding. Naturally attention is paid to the sufficient dimensioning with power reserve just in case.
- Low compressor speed TWIN piston compressors: that means large working volume with low compressor speed (in average only 895 rpm for V-belt driven compressors). A guarantor for long lifetime, low wear, quiet-running and high efficiency.
- **Maintenance-free segment valves:** The multi-purpose valve plates for 2-stage compression prove themselves by their long-life and energy-saving efficiency.

SPECIFICATIONS

Noise level with acoustic hood	68 dB(A)
Cylinder / Stages	2 x 2/1
Suction capacity	400 l/min
Free air delivery	250 l/min
Compressor speed	1400 rpm
Power supply	230/50 V/Hz
Weight with acoustic hood	208 kg
Max. operating pressure	7 bar
Motor power	1,5 / 1,5 kW
Dimensions with acoustic hood (W x D x H)	1150 x 720 x 1400 mm
Pressure vessel capacity	901
Compressed air connection	3/8 inch

Refrigerated Air Dryer

Series IDFA E/F

For use in Europe, Asia and Oceania

Standard/Series IDFA□E

Power supply voltage: Single-phase 230 VAC (50Hz)

Detect inlet	Air flow ca	apacity (m ³		
	Outlet air	pressure of	dew point	Port size
condition	3°C	7°C	10°C	
-	12.0	15.0	17.0	Rc 3/8
	24.0	31.0	34.0	Rc 1/2
	36.0	46.0	50.0	
	65.0	83.0	91.0	Rc 3/4
35°C	80.0	101.0	112.0	
0.7 MPa	120.0	152.0	168.0	Rc 1
	182.0	231.0	254.0	R 1
	273.0	347.0	382.0	R 1 1/2
	390.0	432.0	510.0	D.O.
	660.0	720.0	822.0	R 2
		Outlet air Outlet air 3°C 12.0 24.0 36.0 65.0 35°C 80.0 0.7 MPa 182.0 273.0 390.0	Outlet air pressure of 3°C 7°C 3°C 7°C 12.0 15.0 24.0 31.0 36.0 46.0 65.0 83.0 35°C 80.0 101.0 120.0 152.0 123.0 273.0 347.0 390.0 432.0	Condition Outlet air pressure dew point 3°C 7°C 10°C 12.0 15.0 17.0 24.0 31.0 34.0 36.0 46.0 50.0 65.0 83.0 91.0 35°C 80.0 101.0 112.0 0.7 MPa 122.0 152.0 168.0 182.0 231.0 254.0 273.0 347.0 382.0 390.0 432.0 510.0 10.



Coefficient of destruction for ozone is zero.

CE

HAA HAW

AT

IDF IDU

IDFA

IDFB

IDH

ID IDG IDK AMG AFF AM AMD AME AME

Improved corrosion resistance with the use of stainless steel, plate type heat exchanger (IDFA4E to 75E, 100F to 150F)

Large size/Series IDFA□F

Power supply voltage: Three-phase 380 VAC (50Hz) For Asia and Oceania Three-phase 400 VAC (50Hz) For Europe

Tolerant of high temperature environment! Top of its class in the industry for the large air-cooled type Ambient temperature 45° C at max. Inlet air temperature 60° C at max. Energy saving design

Exhaust heat reduced by 25% at max. Ambient temperature increase suppressed. Employs a heat exchanger made of high corrosion-resistant stainless steel.

Refrigerant R407C(HFC)

Coefficient of destruction fro ozone is zero.

Model	Rated inlet condition	Outlet air pressure dew point	Air flow capacity (m ³ /h [ANR])	Port size
IDFA100F-38	40°C 0.7 MPa	10°C	960	R 2
IDFA125F-38			1210	R 2 1/2
IDFA150F-38	0.7 IVIFa		1500	DIN flange 80
IDFA100F-40	0500		860	R 2
IDFA125F-40	35°C 0.7 MPa	3°C	1100	R 2 1/2
IDFA150F-40	DFA150F-40		1340	DIN flange 80
Gene				69



ZFC

SF

SFD

LLB

GD



1. Standard Products Series IDFA E



	Bated	Air flow capacity (m ³ /h [ANR])						
Model	inlet	Outlet air	pressure	dew point	Refrigerant	Port size	Page	
	condition	3°C	7°C	10°C				
IDFA3E		12	15	17		Rc 3/8		
IDFA4E		24	31	34		Rc 1/2		
IDFA6E		36	46	50	R134a (HFC)		P. 72 to 74	
IDFA8E		65	83	91	п 134а (пго)	Rc 3/4	1.72.1074	
IDFA11E	35°C	80	101	112				
IDFA15E	0.7 MPa	120	152	168		Rc 1		
IDFA22E		182	231	254		R 1		
IDFA37E		273	347	382	R407C (HFC)	R 1 ¹ /2	P. 75 to 77	
IDFA55E		390	432	510		R 2	F. 75 10 77	
IDFA75E		660	720	822		n2		7

2. Large size Series IDFA□F



	Model	Rated inlet condition	Outlet air pressure dew point	Air flow capacity (m ³ /h [ANR])	Port size	Page		
	IDFA100F-38			960	R2			
	IDFA125F-38	40°C	40°C 0.7 MPa	10°C	1210	R2 1/2		
	IDFA150F-38	0.7 WFa		1500	DIN frange 80	P. 78 to 80	L	
	IDFA100F-40	35°C 0.7 MPa		860	R2	P. 70 10 00		
	IDFA125F-40		3°C	1100	R2 1/2			
8	IDFA150F-40			1340	DIN frange 80			

3. Options

Specifications	Applicable model	Suffix (Option symbol)	Page
Cool compressed air output	IDFA3E to 11E	IDFA□E-23-A	
Anti-corrosive treatment	IDFA3E to 75E	IDFADE-23-C	
For medium air pressure (Up to 1.6 MPa) (Auto drain bowl type: Metal bowl with level gauge)	IDFA6E to 37E	IDFA□E-23-K	P. 81
With heavy duty auto drain (For medium air pressure)	IDFA4E to 75E	IDFA□E-23-L	
With circuit breaker	IDFA4E to 75E	IDFA□E-23-R	
With terminal block for power supply, run & alarm signal and remote operation	IDFA4E to 75E	IDFA E-23-T	P. 82
Timer type solenoid valve with auto drain (Applicable to medium air pressure)	IDFA4E to 75E	IDFA□E-23-V	

4. Optional Accessories

Description	Page
Dust-protecting filter set	P. 83
Foundation bolt set	P. 03
70	

Series IDFA E **Model Selection**

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.

However, for 400 VAC, model should also be selected based on the amount of processed air of 380 VAC regarding IDFA100F to 150F. (Correction factor is based on the rated conditions of 380 VAC, so when the factor of rated conditions of 400 VAC is inputted , the amount of processed air of 400 VAC can be found.)

	IDFA	F Selec	ction Exar	nple	HAW
D	Condition		Data symbol	Correction factor Note)	AT
1 Read the correction factor.	Inlet air temperature	40°C	A	0.83	IDF
Obtain the correction factor A to D suitable for your operating condition using the table below.	Ambient temperature	35°C	В	0.83	IDU
condition using the table below.	Inlet air pressure	0.5 MPa	С	0.92	IDF
	Air consumption	31 m ³ /h	-	-	
	Note) Values obtained from t	ne table below.			IDF
2 Calculate the corrected air flow capacity.					IDH
Obtain the corrected air flow capacity from the following formula. Corrected air flow capacity = Air consumption ÷ (Correction factor A x B x C)	Corrected air flow capacity = 31 m³/h \div (0.83 x 0.83 x 0.92) = 48.9 m³/h				ID
3 Select the model.	According to the correct	ted air flow ca	pacity of 48.9 m	³ /h, the IDFA8E will	IDC
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.)	be selected when the re IDFA6E will be selected				ID
4 Option	Refer to pages 81 and 8	• •			AM
	neier to pages of and o	<i>L</i> .			AF
5 Finalize the model number.	Refer to pages 72, 75 and 78.				AIV
~					~11
6 Select accessories sold separately.	Refer to page 83.				AM

∕⊘SMC

Data A: Inlet Air Temperature

Data B: Ambient Temperature Correction factor

Inlet air temperature	Correcti	on factor	Inlet air temperature	Correction factor	Ambient temperature	Correcti	on factor	Ambient temperature	Correction factor
(°C)	IDFA3E to 37E	IDFA55E to 75E	(°C)	IDFA100F to 150F	(°C)	IDFA3E to 11E	IDFA15E to 75E	(°C)	IDFA100F to 150F
5 to 25	1.30	1.33	5 to 30	1.41	20	1.1	1.1	2 to 25	1.06
30	1.25	1.16	35	1.21	25	1	1	30	1.02
35	1	1	40	1	30	0.91	0.97	32	1
40	0.83	0.8	45	0.92	35	0.83	0.89	35	0.99
45	0.7	0.64	50	0.75	40	0.79	0.77	40	0.98
50	0.6	0.48	55	0.63				45	0.92
			60	0.53					

20	1.1	1.1	2 to 25	1.06
25	1	1	30	1.02
30	0.91	0.97	32	1
35	0.83	0.89	35	0.99
40	0.79	0.77	40	0.98
			45	0.92

Data C: Inlet Air Pressure

Inlet air pressure	Correcti	on factor	Inlet air pressure	Correction factor
(MPa)	IDFA3E to 11E	IDFA15E to 75E	(MPa)	IDFA100F to 150F
0.3	0.80	0.72	0.2	0.84
0.4	0.87	0.81	0.3	0.87
0.5	0.92	0.88	0.4	0.9
0.6	0.96	0.95	0.5	0.93
0.7	1.00	1.00	0.6	0.96
0.8	1.04	1.06	0.7	1
0.9	1.07	1.11	0.8	1.03
1	1.1	1.16	0.9	1.06
1.2	1.16	1.21	1 to 1.6	1.09
1.4	1.21	1.25		
1.6	1.25	1.27		

Data D: Air Flow Capacity

٦	Mad	-1		Air flow	capacity (m3/	h [ANR])		AD□
F	Model		IDFA3E	IDFA4E	IDFA6E	IDFA8E	IDFA11E	0.0
1	Outlet air	3°C	12	24	36	65	80	GD
	pressure	7°C	15	31	46	83	101	
	dew point	10°C	17	34	50	91	112	
1	Note) In cooo d	f "Ontion	A (Cool comproso	a oir outout)" tho	oir flaw aanaaitu ia	different Deferte	none Of fer details	

Ambient Correction factor

/ 2/ / 4100

1	Mode		Air flow capacity (m ³ /n [ANH])							
	Woder		IDFA15E	IDFA22E	IDFA37E	IDFA55E	IDFA75E			
	Outlet air	3°C	120	182	273	390	660			
		7°C	152	231	347	432	720			
J	dew point	10°C	168	254	382	510	822			

Mode		Air flow capacity (m ³ /h [ANR])										
MODE	31	IDFA100F	IDFA125F	IDFA150F								
Outlet air	3°C	670	860	1045								
pressure	7°C	816	1029	1275								
dew point	10°C	960	1210	1500								



HAA

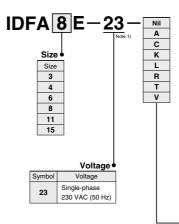
AMH

AME

AMF ZFC SF SFD LLB



How to Order



Options and Available Combinations (Size/Option)

Symbol Note 2)	Nil	Α	С	К	L	R	Т	v
Option	None	Cool compressed air output	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)
3	•	•	•	_		_		
4	•	•	•	_	•	•	•	•
6	•	•	•	•	•	•	•	•
8	•	•	•	•	•	•	•	•
11	•	•	•	•	•	•	•	•
15	•	—	•	•	•	•	•	•

Note 1) G thread (PF thread) can accept the R thread (PT male thread), thus making no "F" in the thread specification setting. A conversion adaptor for the R thread (PT male thread) is also contained.

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

Standard Specifications





			Model		Sta	ndard temp	erature air	inlet				
sp	ecification	S		IDFA3E	IDFA4E	IDFA6E	IDFA8E	IDFA11E	IDFA15E			
	Fluid					Compre	essed air					
ahaa ahaa ahaa	Inlet air t	emperati	ure (°C)			5	to 50					
ami	Inlet air p	ressure	(MPa)	0.15 to 1.0								
	Ambient	tempera	ture (Humidity) (°C)		2 to 40 (F	Relative hur	nidity of 85	% or less)				
		Note 1) Standard	Outlet air pressure dew point (3°C)	12	24	36	65	80	120			
		condition	Outlet air pressure dew point $(7^{\circ}C)$	15	31	46	83	101	152			
	Air flow capacity	(ANR)	Outlet air pressure dew point (10°C)	17	34	50	91	112	168			
0	m ³ /h	Com- ^{Note 2)}	Outlet air pressure dew point (3°C)	13	25	37	68	83	125			
		intake	Outlet air pressure dew point $(7^{\circ}C)$	16	32	48	86	105	158			
		condition	Outlet air pressure dew point (10°C)	18	35	52	95	116	175			
100			(MPa)			0	.7					
				35								
	Ambient	tempera	ture (°C)			2	25					
	Power supply voltage		Single	-phase: 23	0 VAC [Vol	tage fluctu	ation ±10%]	50 Hz				
teristics	Power consumption Note 6) (W) Operating current Note 6) (A)		180 208 385									
charac			(A)	1.2 1.4 2.7 3.0								
	plicable ci ensitivity c		aker capacity ^{Note 5)} 0 mA) (A)	5 10								
20	ondenser			Air-cooled								
16	frigerant					R134a	(HFC)					
۱ı	ito drain				FI	oat type (N	ormally op	en)				
,	ort size			Rc 3/8	Rc 1/2		Rc 3/4		Rc 1			
۱	cessory					Hexago	n nipple					
V	eight		(kg)	18	22	23	27	28	46			
Coating color							el: White 1					
_				Base: Gray 2 EC Directive (with CE marking)								
ot		capacity u	nder the standard condition (pheric press	ure at 20°C,	relative humi	dity at 65%]				
			onverted by the compressor ge does not guarantee the us				at 32°C, rel	ative humidity	at 75%].			

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.

Model	IDFA3E	IDFA4E	IDFA6E	IDFA8E I	DFA11E IDFA15E				
Auto drain replacement part no. Note 8) AD38 AD48									
e 8) The part number for the auto drain com Body part replacement is impossible.	iponents wi	thout includ	ing the boo	iy part.	Body				

Construction Principle (Air/Refrigerant Circuit)

Humid, hot air coming into **IDFA3E IDFA4E, IDFA6E** the air dryer will be cooled IDFA8E, IDFA11E, IDFA15E down by a cooler re-heater (heat exchanger). Water condensed at this time will Drain separator be removed from the air by Heat exchanger Compressed air inlet auto drain and drained out Compressed air inlet Compressed air outlet Drain separator automatically. Air separa-ted from the water will be Compresse Cooler Re-heater air outlet φ heated by a cooler re-hea-Volume control valve Volume Evaporation control valve Drain outlet ter (heat exchanger) to obthermometer tain the dried air, which goes through to the outlet Capillary tube Condense Compressor for 6 Fan motor Compressor for Pressure switch refrigeration refrigeration Pressure switch Fan motor Condenser Capillary tube Evaporation thermometer

side



AMF

ZFC

SF SFD

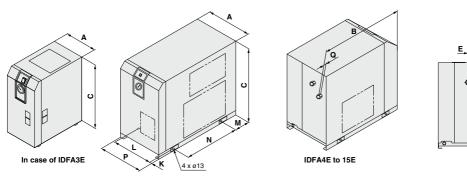
LLB AD

GD

Series IDFA ... E

Dimensions

IDFA3E to 15E



D

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Dimensio	Dimensions													
Model	Port size	Α	В	С	D	Е	F	G	K *	L*	M*	N*	Р	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		270	455	498	31	42	283	80		240	80	2/5	-	
IDFA8E	Rc 3/4	270	405	500	31	42	0.5.5	80	15	240	80		1	15
IDFA11E			485	568			355					300		
IDFA15E	Rc 1	300	603	578	41	54	396	87		43	101	380	314	16

* Meaning the foot dimensions for the IDFA3E.

Refrigerant R407C (HFC) Series IDFA E 22E, 37E, 55E, 75E (Inlet air temperature: 35°C)

								444
								HAA HAW
ŀ	low	to Or	der					AT
				_				IDF IDU
IDFA	5	E	23 - Nil Note 1) C	-				IDFA
Size			K					
Size	_		L R	-				IDFB
22 37	-		T					IDH
55				1				ID
75								IDG
Symbo		Voltage	ge •					IDK
23	Sing	Voltage jle-phase	-					AMG
25	230	VAC (50 I	Hz)					AFF
								AM
			Options and A	vailable C	ombin		Size/Option)	AMD
Symbol Note 2)	Nil	С	К	L With heavy	R	T With	V Timer type solenoid	
Option	None		For medium air pressure Auto drain bowl type:	duty auto drain (Applicable to	With circuit	terminal block for	valve with auto drain (Applicable to	AMH
Size		treatment	\Metal bowl with level gauge /	pressure)	breaker	run & alarm signal	medium air pressure)	AME
22 37	•	•	•	•	•	•	•	AMF
	-				-	•	•	
55	•	•	-	•	•	•		
75	•	•		•	•	•	•	ZFC
75 Note 1) G thread (Pf setting.	• F thread) can acce	 pt the R thread (PT male	• e thread), thus m	•	•	•	
75 Note 1) G thread (Pf setting. Note 2) Enter alphat However, th	thread thread thread thread thread thread) can acce when mult ing combin	pt the R thread (PT male tiple options are combine tation cannot be achieved	• thread), thus med.	making no	• "F" in the th	tread specification	SF
75 Note 1) G thread (Pf setting. Note 2) Enter alphat However, th • Combinatio option.	F thread petically e followi on of K,	(can acce) when mult ing combin L and V ca		thread), thus med. d. use an auto drain	naking no	• "F" in the th	tread specification	SF SFD
75 Note 1) G thread (Pf setting. Note 2) Enter alphat However, th • Combinatic option.	F thread petically e followi on of K,	(can acce) when mult ing combin L and V ca	pt the R thread (PT male tiple options are combine tation cannot be achieved	thread), thus med. d. use an auto drain	naking no	• "F" in the th	tread specification	SF
75 Note 1) G thread (Pf setting. Note 2) Enter alphat However, th • Combinatic option.	F thread petically e followi on of K,	(can acce) when mult ing combin L and V ca		thread), thus med. d. use an auto drain	naking no	• "F" in the th	tread specification	SF SFD
75 Note 1) G thread (Pf setting, Note 2) Enter alphat However, th • Combinatio option.	F thread petically e followi on of K,	(can acce) when mult ing combin L and V ca		thread), thus med. d. use an auto drain	naking no	• "F" in the th	tread specification	SF SFD LLB

Series IDFA





Standard Specifications

		_	M	odel	Sta	andard temp	erature air ir	let			
Sn	ecification			ouci			IDFA55E				
	Fluid	3		-	Compressed air						
ge ^{Not}	Inlet air t	mnorati		(°C)	5 to 50						
ng ran	Inlet air p			(C) IPa)	0.15 to 1.0						
Operating range Note 3)				(°C)	0 40 40 /			or (oco)			
ğ	Amplent	Note 1)		(°C) (3°C)	182	273	nidity of 85% 390	,			
		Standard		17				660			
(Air flow	condition (ANR)		(7°C)	231	347	432	720			
Note	capacity	. ,	Outlet air pressure dew point (,	254	382	510	822			
suo	m³/h	Com-Note 2) pressor		(3°C)	189	284	405	686			
icati		intake		(7°C)	240	361	449	748			
ecif			Outlet air pressure dew point (,	264	397	530	854			
Rated specifications Note 4)	Inlet air p	ressure	(N	IPa)	0.7						
Rate	Inlet air t			(°C)	35						
	Ambient	temperat	ture	(°C)		_	5				
	Power su	pply vol	tage		Single-phase: 230 VAC [Voltage fluctuation ±10%] 50 Hz 760 1390 1700						
Electrical characteristics	Power co	nsumpti	on Note 6)	(W)	76	1700					
Elect	Operating	g current	Note 6)	(A)	4	.3	6.1	7.9			
Ap	plicable ci	rcuit bre	aker capacity Note 5)	(A)	10 20						
Co	ondenser				Air-cooled						
Re	frigerant					R407C	(HFC)				
						Float	type				
AU	ito drain					(Normal	ly open)				
Po	rt size				R 1	R 1 ¹ /2	R	2			
Ac	cessory					_	_				
We	eight			(kg)	54	62	100	116			
Co	ating cold	or				Body pane Base: Gra					
Co	mpliant s	tandards			EC	Directive (w	ith CE marki	ng)			
					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 appro-

priate earth leakage breaker separately Note 6) These values are reference values under rated conditions, and are not guaranteed. Do not use these val-

ues for the thermal set values, etc.

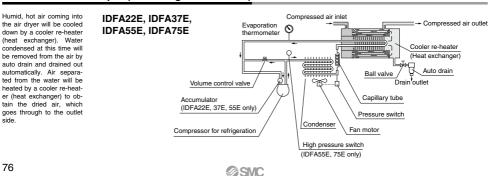
Note 7) When a short-term interruption of the power supply (including momentary interruption) occurs in this equipment, the restarting of normal operations may require some time or may be impossible due to the operation of protective devices even after the supply of power returns.

Auto drain

1	Replacement Parts						
	Model	IDFA22E	IDFA37E	IDFA55E	IDFA75E	1	
	Auto drain replacement part no. Note 8)	AD48					
Note 8	B) The part number for the auto drain com Rody part replacement is impossible.	ponents with	out including	the body pa	rt.	Body	

Construction Principle (Air/Refrigerant Circuit)

I

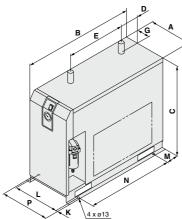


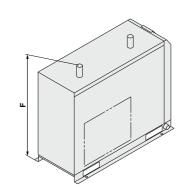
side

Refrigerated Air Dryer Series IDFA ...

Dimensions

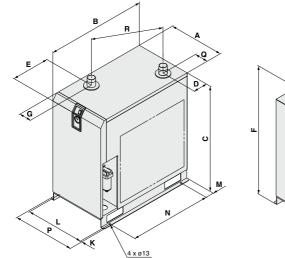
IDFA22E, IDFA37E

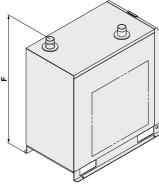




Dimensions (mm											(mm)			
Model	Port size	Α	В	С	D	Е	F	G	К	L	М	Ν	Р	Q
IDFA22E	R 1	290	775	623	134	405	698	93	13	25	85	600	340	
IDFA37E	R 1 ¹ /2	290	855	023	134	405	098	93	13	25	05	680	340	_

IDFA55E, IDFA75E



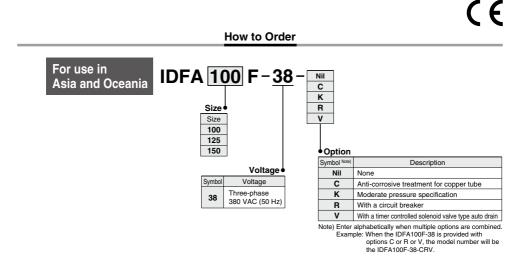


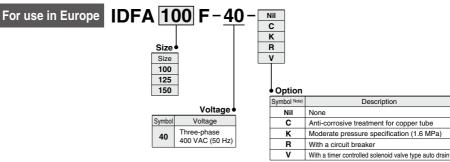
HAA Haw
AT
IDU
IDFB
IDH
ID
IDG
IDK
AMG
AFF
AM
AMD
AMH
AME
AMF
ZFC
SF
SFD
LLB
AD
GD

Dimensior	Dimensions (m											(mm)			
Model	Port size	Α	В	С	D	Е	F	G	К	L	М	Ν	Р	Q	R
IDFA55E	R2	470	055	800	(100)	(273)	(868)	(110)	13	500	75	700	526	(110)	519
IDFA75E	нz	470	855	900	(128)	(273)	(968)	(110)	13	500	/5	700	526	(110)	519

Refrigerant R407C (HFC) Series IDFA100F/125F/150F

For use in Europe, Asia and Oceania (Max. inlet air temperature: 60°C, Max. ambient temperature: 45°C)





Note) Enter alphabetically when multiple options are combined.

Example: When the IDFA100F-40 is provided with options C or R or V, the model number will be the IDFA100F-40-CRV.

Refrigerated Air Dryer Series IDFA100F/125F/150F

Standard Specifications

(1) FB	
	* * *
No. of Concession, Name	
ľ	a new latentite

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	_					-			
	ecifications	Model		in Asia and			r use in Euro		
Sp	ecifications		IDFA100F-38	IDFA125F-3	8 IDFA150F-38		UFA125F-40	IDFA150F-40	
tin o	Fluid Inlet air tempe Inlet air press Ambient temperature	erature °C			Compre 5 to				
a al	Inlet air proce	ure MPa		0.1	5 to 1.0/0.15 t		ion K		HAA
apo	Ambient temperature	(humidity) °C			5 (Relative hu				HAW
	Ambient temperature	Standard		2 10 4	S (Helative Ho				AT
suc	Air flow capacity	condition (ANR) Note 1)	960	1210	1500	860	1100	1340	AT
Rated conditions	m³/h	Compressor intake Note 2) condition	1000	1255	1560	875	1119	1363	IDF IDU
8	Inlet air press	ure MPa			0	.7			
8	Inlet air tempe	erature °C		40			35		IDF
at	Ambient temp	erature °C		32			25		
1	Outlet air pressure	dew point °C		10			3		IDF
ous	Power supply	voltage	Thre	e-phase 38	0 VAC	Thre	e-phase 400	VAC	
lifectr	Power supply Power consum Operating cur	ption kW	2.8	3.4	3.4	2.5	2.7	2.7	IDI
E Sec	Operating cur	rent A	5.1	6.3	6.3	4.5	5.3	5.9	וטו
A	plicable circuit pacity Note 4)				1	15			ID
	at discharge fro ndenser	om kW	7.5	9	11.5	7	8	10	ID
Re	efrigerant		R407C (HFC)					<u> </u>	
A	ito drain		1	The option \	Float type (No stands for a			e.	ID
Po	rt size		R2	R2 1/2	DIN flange 80	R2	R2 1/2	DIN flange 80	
w	eight	kg	245	270	350	245	270	350	AM
	ating color		Body panel: White 1 Base: Gray 2				AF		
C	mpliant stand	ards		EC Dire	ective complia	nt (with CE	markina)		_
Note	e 1) Air flow capac	ity under the st		on (ANR) [at	mospheric press	sure 20°C, rela	tive humidity 6	65%]	AIV
Note	 The operation different from 	range does no the rated speci	y the compressor intake condition [atmospheric pressure 32°C] ot guarantee the use with normal air flow capacity. When operating conditions are ifications, please select a model in accordance with Model Selection (page 71).					AM	
Note 4) Install a circuit breaker with a sensitivity 30 mA. Replacement Parts						AM			
		Air dryer			IDFA100F	IDFA125	F IDFA1	50F	_
Heavy duty auto drain replacement part no. Note 5) Dustproof filter set for condenser			IDE	ADH-E40 FL219	0 IDF-FL	220	AM		
						FL219	IDF-FL		<u> </u>
Note	5) Part number o the housing	of only the exha	ust mechanisr	n replacemer	nt kit excluding			ust mechanism cement kit	AM
									ZF
						_	T		'

Construction (Air/Refrigerant Circuit)

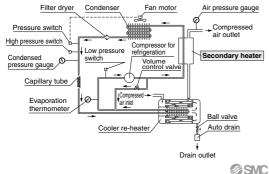
Hot and humid air entering the air dryer is cooled down by the cooler re-heater (heat exchanger). The moisture which is condensed and separated is automatically exhausted by the auto drain. The air which has had its moisture removed is heated in two stages by the re-heater (heat exchanger) in the cooler re-heater and by the secondary heater, and is supplied to the outlet side as warm and dry air.

IDFA100F/125F/150F

Symbol

Refrigerated air drver

Auto drain



Secondary heater

Compressed air from which drainage has been exhausted exchanges heat with refrigerant which has been compressed by the refrigerator, to give the following effects:

- 1. The outlet air temperature increases, preventing condensation of the piping on the outlet side.
- 2. The amount of heat exhausted from the condenser is reduced.
- 3. Energy saving operation of the dryer is achieved by reducing the amount of heat exhausted from the condenser.

SF

SFD

LLB

AD

GD

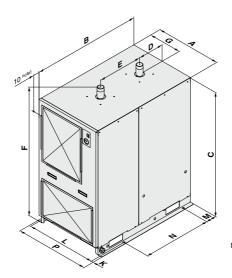
Housing

(Use existing equipment.)

Series IDFA100F/125F/150F

Dimensions

IDFA100F/125F

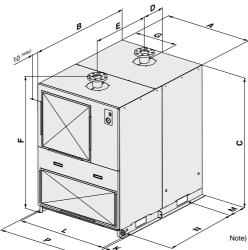


Note) In addition to the overall length of the body, the filter mounting part (bracket) projects 10 mm.

Dimensions

Dimensions (mn											(mm)		
Model	Port size	Α	В	С	D	E	F	G	ĸ	L	М	N	Р
IDFA100F	R2	670	1120	1276	067	460	1375	335	20	712	107	700	752
IDFA125F	R2 1/2	700	1120	1270	267	655		350		/12	78	935	/52

IDFA150F



Note) In addition to the overall length of the body, the filter mounting part (bracket) projects 10 mm.

Dimensions

Dimension	Dimensions (m												
Model	Port size	Α	В	С	D	E	F	G	ĸ	L	М	N	Р
IDFA150F	DIN flange 80	950	1290	1332	268	720	1432	475	20	990	217	935	1030
80						ſ	SMC	r.					

Series IDFA E/F **Options 1**

For "How to Order" optional models, refer to pages 72, 75 and 78.

Option symbol

Cool compressed air output IDFA3E to 11E

There is no heating of cooled, dehumidified air as it leaves the air dryer The air flow capacity with this option is smaller than that of the standard dryer. (The external dimensions are identical with the standard product.) Note) Perform thermal insulation treatment for piping and equipment installed after the dryer to prevent the formation of condensation.

Air Flow Canacity

Model	IDFA3E	IDFA4E	IDFA6E	IDFA8E	IDFA11E	
Air flow capacity m3/h (ANR)	8	23	29	32	39	
Conditions: Inlet air pressure: 0.7 MPa, Inlet air temperature: 35°C ,						

Outlet air temperature: 10°C Ambient temperature: 25°C

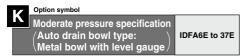


This minimizes the corrosion of the copper and copper alloy parts when the air dryer is used in an atmosphere containing hydrogen sulfide or sulfurous acid gas. (Corrosion cannot be completely prevented.)

Special epoxy coating: 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 the coating.

* Corrosion is not covered under warranty.



The auto drain is changed from the standard one to one with a moderate pressure specification.

A metal bowl with a level gauge which can confirm the water level is used for the auto drain.

Specifications

- 1. Maximum operating pressure: 1.6 MPa
- 2. Dimensions --- same as standard products

Replacement Parts

Model	Auto drain assembly part no.	Note						
IDFA6E to 15E	IDF-S0086	The AD48-8-X2110 auto drain, insulator, and One-touch fitting are included.						
IDFA22E, 37E AD48-8-X2110		Single auto drain unit						

Option symbol

The maximum operating pressure is 1.6 MPa.

The internal drain piping material is changed from nylon to metal.

Specifications

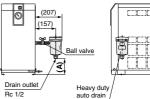
1. Maximum operating pressure: 1.6 MPa 2. Dimensions --- same as standard products

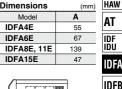


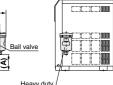
With heavy duty auto drain IDFA4E to 75E (Applicable to moderate air pressure)

The float type auto drain used in the standard air dryer is replaced with a heavy duty auto drain (ADH4000-04) which enables the drainage to discharge more efficiently.

IDFA4E to 15E









IDFA22E to 75E

Heavy duty auto drain







ZFC SF

SFD

LLB

AD

GD

HAA

HAW

IDH

ID

IDG

Drain tube: Ball valve Length approx 0.95 m (OD @10) ∢]

Dimensions	(mm)
Model	Α
IDFA22E, 37E	Approx. 100
IDFA55E, 75E	Approx. 120

Note 1) The heavy duty auto drain and the ball valve are both enclosed in the same shipping package as the main body of the air dryer. Customers are required to mount the parts to the air dryer. (Except IDFA22E to 75E) Note 2) Customers will need to supply the fitting and tubing for the drain piping.

(Except IDFA22E to 75E)

Replacement Parts: Heavy Duty Auto Drain

Model	Model Replacement part no. (Description)	
IDFA4E to 15E	ADH4000-04 (Heavy duty auto drain)	Heavy duty auto drain
	ADH-E400 (Replacement kit for	Replacement kit for exhaust mechanism
IDFA22E to 75E	exhaust mechanism)	Housing (You don't need to purchase a new housing.)

Series IDFA E/F **Options 2**

For "How to Order" optional models, refer to page 72, 75 and 78.

(mm)

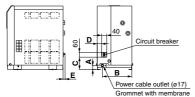
(mm)

Option symbol

With circuit breaker IDFA4E to 75E, IDFA100F to 150F

A circuit breaker with cover is attached to the side of the air dryer. This saves additional electrical wiring at the time of installation.

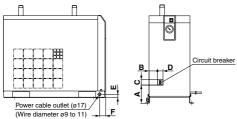
IDFA4E to 15E



Dimensions

Model	Α	В	С	D	E
IDFA4E, 6E, 8E, 11E	32	230	97	34	15
IDFA15E	43	258	102	82	—

IDFA22E to 75E



Dimensions

Model	Α	В	С	D	Е	F		
IDFA22E	125	59		40	25	40		
IDFA37E	125	39	60	40		46		
IDFA55E	148	81	00	60	50	36		
IDFA75E	133	73		00	50	30		

IDF100F to 150F

		Dimensions		(mm)
A B		Model	Α	В
	T t	IDFA100F	509	535
\parallel \times \parallel	m	IDFA125F	505	035
		IDFA150F	628	537
	h +			

Breaker Capacity and Sensitivity Current

Voltage	Model	Breaker capacity	Sensitivity current
	IDFA4E-23, IDFA6E-23 IDFA8E-23, IDFA11E-23	5 A	
230 V type	IDFA15E-23, IDFA22E-23 IDFA37E-23, IDFA55E-23	10 A	30 mA
	IDFA75E-23	20 A	
380/400 V type	IDFA100F, IDFA125F IDFA150F	15 A	



With terminal block for power supply, run & alarm IDFA4E to 75E signal and remote operation

In addition to the terminals for the power supply, terminals for the operating signal and the error signal are also available. (No-voltage contact) Also, in the case of remote control, operate it from the power supply side while the air dryer switch remains ON.

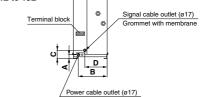
230 VAC, 4 A 24 VDC, 5 A for operating and Contact capacity: error signals.

Minimum current value: 20 V, 5 mA (AC/DC) for operating and error signals.

Note 1) Terminal block for power supply, run & alarm signal and remote operation is mounted on the standard types of the IDFA100F to 150F.

Note 2) Please be sure to confirm the electric circuits with the drawings or instruction manual before using the output signal.

IDFA4E to 15E



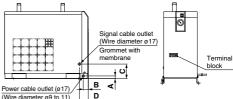
Grommet with membrane

(mm)

Dimensions

Model	Α	В	С	D
IDFA4E, 6E, 8E, 11E	32	230	67	179
IDFA15E	43	258	77	158

IDFA22E to 75E



(Wire diameter ø9 to 11)

Dimensions (mm)						
	Model	Α	В	С	D	
	IDFA22E, 37E	25	46	135	81	
	IDFA55E, 75E	50	36	207	81	



Option symbol

imer type solenoid valve with auto drain	IDFA4E to 75E
Applicable to medium air pressure)	IDFA100F to 150F

Drainage is discharged by controlling a solenoid valve with a timer. A strainer for solenoid valve protection and stop valve are also included. (Dimensions are the same as the standard type.)

Maximum operating pressure: 1.6 MPa (IDFA100F to 150F: 1.0 MPa)

* The timer-type solenoid valve actuates once (for 0.5 s) every 30 s.

Replacement Parts

Model	Part no.	Note			
IDFA4E to 37E	IDF-S0198	230 VAC			
IDFA55E, 75E	IDF-S0302	230 VAC			
IDFA100F to 150F	IDF-S0405	200 VAC			



Series IDFA E/F Optional Accessories

		Features	Specifications	Applicable dryer	-
Dust-protecting filter set		Prevents a decline in the perform of the air dryer, even in a dusty atmosphere.	hance Max. ambient temperature 40°C	IDFA3E to 75E	HAA
Foundation bolt set	and the second s	Bolts for fixing the air dryer to the foundations. Easy to secure by striking its axl	Stainless steel	IDFA4E to 75E IDFA100F to 150F	AT
					– IDF IDU
How to Order					IDFA
Dust-protecting filter set Foundation bolt set					
IDF — FL 2	09	IDF-AB 500			IDH
Applicable dryer		Applicat			ID
Symbol Applicable 209 IDFA3E			Applicable dryer IDFA4E to 75E		
202 IDFA4E			0FA100F to 150F		IDG

Dust-protecting Filter Set/Dimensions



203

204

205

206

207

208

213

214

IDFA6E

IDFA8E

IDFA11E

IDFA15E

IDFA22E

IDFA37E

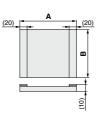
IDFA55E

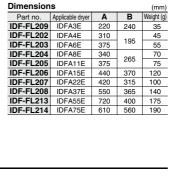
IDFA75E



(IDF-FL209)

(IDF-FL202 to 208, 213, 214)





Foundation Bolt Set/Dimensions

	Dimensions				
(mm)	Part no.	Applicable dryer	Nominal thread size	Material	Pcs. of 1 set
	IDF-AB500	IDFA4E to 75E	M10	Stainless steel	4
	IDF-AB501	IDFA100F to 150F	WITO	Staniess steel	
28 					
	diameter: ø10.5				

IDK

AMG

AFF

AM

AMD

AMH

AME

AMF

ZFC

SF

SFD

LLB

AD

GD



Series IDFA E/F Specific Product Precautions 1

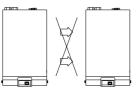
Be sure to read before handling.

Refer to front matter 43 for Safety Instructions and pages 6 to 8 for Air Preparation Equipment Precautions.

Installation

A Caution

- Avoid locations where the air dryer will be in direct contact with wind and rain. (Places where relative humidity is greater than 85%)
- Avoid exposure to direct sunlight.
- Avoid locations that contain much dust, corrosive gases, or flammable gases. Failure due to corrosion is not covered under warranty. However, when the risk of corrosion is high, select "Option C" (copper tubing with anti-corrosive treatment).
- Avoid locations of poor ventilation and high temperature.
- Avoid too close to a wall etc. Leave sufficient room between the dryer and the wall according to the "Maintenance space" in the operation manual.
- Avoid locations where a dryer could draw in high temperature air that is discharged from an air compressor or other dryer.



The air exhaust should not flow into the neighboring equipment. (Top side)

- · Avoid locations subjected to vibration.
- · Avoid possible locations where the drain can freeze.
- Use the air dryer with an ambient temperature lower than 40°C.
- Avoid installation on machines for transporting, such as trucks, ships, etc.

Drain Tube

A Caution

- A polyurethane tube is attached as a drain tube for the IDFA3E to 75E and IDFA100F to 150F. 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 the auto drain will stop water vapor from discharging through the air outlet.)

If it is unavoidable that the tube goes upwards, make sure it only goes as far as the position of the auto drain.

Power Supply

A Caution

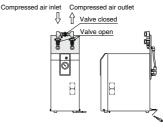
- · Connect the power supply to the terminal block.
- Install a suitable circuit breaker applicable for the specific model.
- The voltage fluctuation should be maintained within $\pm 10\%$ of the rated voltage.
- Note) Select a circuit breaker with a sensitivity current 30 mA. As regards rated current, refer to "Applicable circuit breaker capacity" on pages 73, 76 and 79.

Air Piping

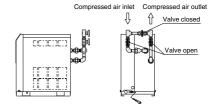
A Caution

- Be careful to avoid an error in connecting the air piping at the compressed air inlet (IN) and outlet (OUT).
- Install by-pass piping since it is needed for maintenance.

IDFA3E



IDFA4E to 15E

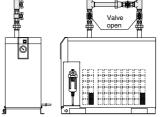




Compressed air outlet





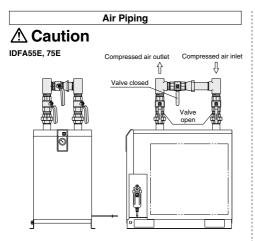




Series IDFA E/F Specific Product Precautions 2

Be sure to read before handling.

Refer to front matter 43 for Safety Instructions and pages 6 to 8 for Air Preparation Equipment Precautions.



- When tightening piping at the air inlet/outlet tube, the hexagonal parts of the port on the air dryer side or piping should be held firmly with a spanner or adjustable angle wrench.
- Variations in operating conditions may cause condensation to form at the surface of the outlet piping. Apply thermal insulation around the piping to prevent condensation from forming.
- Vibration resulting from the compressor should not be transmitted through air piping to the air dryer.
- Do not allow the weight of the piping to lie directly on the air dryer.

Protection Circuit

▲ Caution

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

- When the compressed air temperature is too high.
- When the compressed air flow rate is too high.
- When the ambient temperature is too high. (40°C or higher, however, 45°C or higher for IDFA100F to 150F)
- \bullet When the fluctuation of the power supply is beyond the rated voltage $\pm 10\%.$
- When the dryer is drawing in high temperature air that is discharged from an air compressor or other dryer.
- . The ventilation port is obstructed by a wall or clogged with dust.

Compressor Air Delivery

\land Caution

Use an air compressor with an air delivery of 100 L/min or larger with the IDFA3E to 75E series.

Since the auto drain of the IDFA3E to 75E is designed in such a way that the valve remains open unless the air pressure rises to 0.15 MPa or nore for IDFA100F to 150F), air will blow out from the drain discharge port at the time of air compressor start-up until the pressure increases. Therefore, if an air compressor has a small air delivery, the pressure may not be sufficient.

Auto Drain

A Caution

The auto drain may not function properly, depending on the quality of the compressed air. Check the 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, operating light turns off and the dryer will not be activated.

Modifying the Standard Specifications

Do not modify the standard product using any of the optional specifications once the product has been supplied to a customer. Check the specifications carefully before selecting an air dryer.

HAA HAW AT IDF וחו IDFA IDFB IDH ID IDG IDK AMG AFF AM AMD AMH AME AMF ZFC SF SFD LLB AD GD