

AAAG[®]

BASINÇLI HAVA SİSTEMLERİ SAN.ve TİC.LTD.ŞTİ



Product Catalog

Compressed Air Refrigeration Dryer
COMPAC 900 - 140 000 Series



GOST-R Certification Mark.

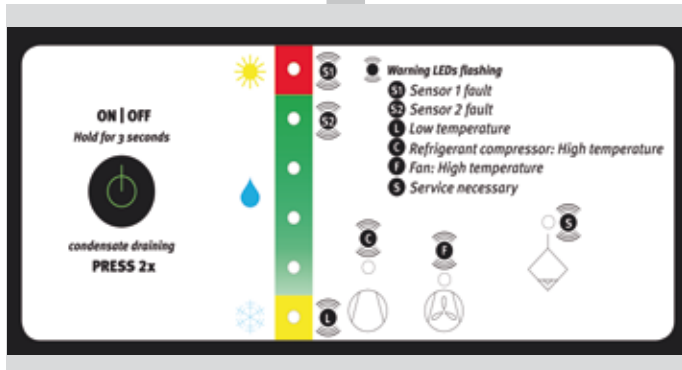
What for COMPAC;

Different from other products



High Efficiency Heat Exchanger Design

As the design of a line filter with the feature of assembly and disassembly. It uses ambient temperature for pre-refrigeration of hot air inlet. Efficient heat transfer with aluminium panel fins, a design not to be affected of freezing problem at low temperature.



Intelligent Control System

- ★ Display of pressure dew point through a clear scale
- ★ Alarm output for problems in the compressed air refrigeration dryer
- ★ Quick identification of the affected component
- ★ Trouble-shooting overview in the manual enables a direct debugging in most cases
- ★ Manual condensate discharge through pressing the on/off button twice
- ★ Signal output for external alarm integrated (12 V dC signal)



Durable Rigid Design and Copper Piping

A constant and excellent vibration free refrigeration system.



Simple Bay-Pass Line , With Inlet and Outlet Filters

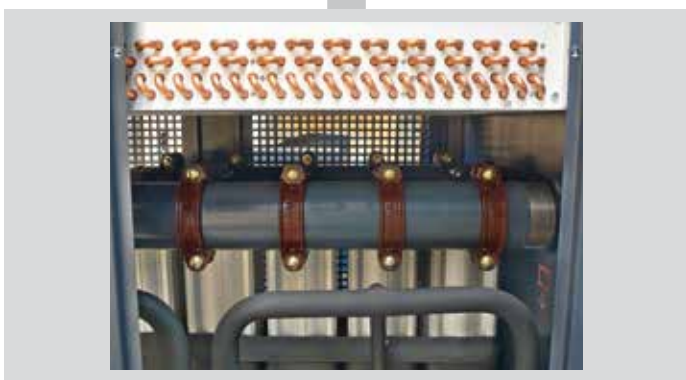
Inlet and outlet filters and heat exchanger on the same line till C-6500 model.

- ★ Outlet pressured air quality
- ISO 8573-1 ;2010
- Oil Class : 1 0,01 mg/ m³
- Durs Class : 1..... 0,1 mikron
- Water Class : 4..... 6 gram/ m³



Various Hardware - Small Size

- | | |
|---------------------|---|
| 1 - Water Separator | |
| 2 - Inlet Filter | 1 micron dust, 0,5mg / m ³ oil |
| 3 - Heat Exchanger | Water content : 6mg / m ³ |
| 4 - ACT 2pcs | Oil 0,003mg / m ³ |
| 5 - Outlet Filter | 0,1 micron dust |
| 6 - Zeromat | Zero air loss water drain |



Impressive Design and Innovation

COMPAC with premium functions as well as economical price.



Designed for tropical conditions

COMPAC-0 series

Inlet Temperature C	Pressure Dew-point (7 barg)	Water Content
+ 40 °C	+ 3 °C	5,9 gram/m ³
+ 60 °C	+ 12 °C	10,6 gram/m ³



Low Pressure Drop With Design Options

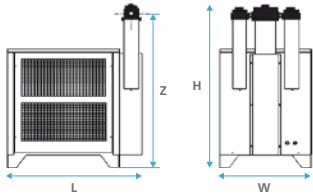
- ★ Pressure Drop Total max.=0,1~0.2 bar (g) (at 3 C Pressure Dewpoint)
- ★ COMPAC.....0 Series Standart Desing
- ★ COMPAC.....1 Series Cold Outlet Air (+3 C) Desing.(for treatment in front of a N2/O2 generator)
- ★ COMPAC.....2 Series Hight Inlet Temperature (+70 C) Desing
- ★ COMPAC.....3 Series Hight Working Pressures 50 bar (g)
- ★ Latest model numbers

DIN-EN-ISO 9001 : 2008	-----	Quality Management ; Development/Production
EN ISO 12100:2010; 2006/42/EC	-----	Machinery Directive
EN 60204-1:2006/AC:2010 2006/95/EC	-----	Low Voltage Directive
2004/108/EC	-----	Electro-Magnetical Compatibility Directive
97/23/EC	-----	Pressure Equipment Directive,
Cat I, Module A		

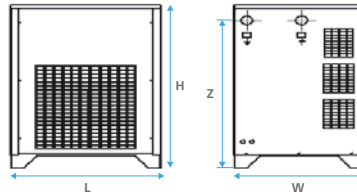
Production Norms and Methods

COMPAC COMPRESSED AIR DRYER TECHNICAL DATA

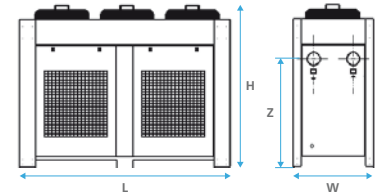
COMPAC MODELS	bar	psi	m ³ /min	m ³ /h	cfm	Compressor hp	V/Ph/Hz	Connection Size	L	W	H	Z	Kg	Gas
COMPAC 900	16	232	0,9	54,0	31,8	1/5	230/1/50	1/2 "	415	330	540	505	30	R-134 a
COMPAC 1200	16	232	1,2	72,0	42,4	1/5	230/1/50	1/2 "	415	330	625	575	31	R-134 a
COMPAC 1800	16	232	1,8	108,0	63,6	1/4	230/1/50	3/4"	415	330	625	575	32	R-134 a
COMPAC 2200	16	232	2,2	132,0	77,7	1/4	230/1/50	3/4"	415	370	670	620	32	R-134 a
COMPAC 2600	16	232	2,6	156,0	91,9	3/8	230/1/50	1"	555	470	720	675	44	R-134 a
COMPAC 3100	16	232	3,1	186,0	109,6	3/8	230/1/50	1"	555	470	720	675	45	R-134 a
COMPAC 3700	16	232	3,7	222,0	130,8	1/2	230/1/50	1"	555	470	720	675	47	R-134 a
COMPAC 5500	16	232	5,5	330,0	194,4	3/4	230/1/50	1"	720	505	985	940	79	R-134 a
COMPAC 6500	16	232	6,5	390,0	229,7	1	230/1/50	1-1/2"	720	505	985	930	83	R-134 a
COMPAC 8500	16	232	8,5	510,0	300,4	2	400/3/50	2 "	905	735	1190	1075	140	R-407 c
COMPAC 11000	16	232	11,0	660,0	388,7	2	400/3/50	2 "	905	735	1190	1075	140	R-407 c
COMPAC 13000	16	232	13,0	780,0	459,4	2,5	400/3/50	2 "	905	735	1190	1075	150	R-407 c
COMPAC 17800	16	232	17,8	1.068,0	629,1	3	400/3/50	2-1/2 "	1145	780	1385	1090	226	R-407 c
COMPAC 20000	16	232	20,0	1.200,0	706,8	4	400/3/50	2-1/2"	1145	780	1385	1090	234	R-407 c
COMPAC 25500	16	232	25,5	1.530,0	901,2	4	400/3/50	3"	1145	780	1385	1100	273	R-407 c
COMPAC 30000	16	232	30,0	1.800,0	1060,2	5	400/3/50	3"	1450	830	1670	1100	330	R-407 c
COMPAC 35500	16	232	35,5	2.130,0	1254,6	6	400/3/50	4"	1450	830	1670	1100	334	R-407 c
COMPAC 40000	16	232	40,0	2.400,0	1413,6	7	400/3/50	4"	1450	830	1670	1100	348	R-407 c
COMPAC 45000	16	232	45,0	2.700,0	1590,3	10	400/3/50	4"	1450	830	1670	1100	480	R-407 c
COMPAC 50000	16	232	50,0	3.000,0	1767,0	10	400/3/50	4"	1450	830	1670	1100	552	R-407 c
COMPAC 60000	16	232	60,0	3.600,0	2120,4	10	400/3/50	DN-100	2020	950	1820	1645	700	R-407 c
COMPAC 71000	16	232	71,0	4.260,0	2509,1	12	400/3/50	DN 100	2290	950	2350	1645	800	R-407 c
COMPAC 80000	16	232	80,0	4.800,0	2827,2	13	400/3/50	DN 100	2290	950	2350	1645	950	R-407 c
COMPAC 90000	16	232	90,0	5.400,0	3180,6	15	400/3/50	DN 100	2290	950	2350	1645	1250	R-407 c
COMPAC 106000	16	232	106,0	6.360,0	3746,0	18	400/3/50	DN 125	2800	1250	2350	1645	1380	R-407 c
COMPAC 120000	16	232	120,0	7.200,0	4240,8	20	400/3/50	DN 125	2800	1250	2350	1645	1500	R-407 c
COMPAC 140000	16	232	140,0	8.400,0	4947,6	25	400/3/50	DN 125	2800	1250	2350	1645	2000	R-407 c



Models between Compac 900 and 6.500



Models between Compac 8.500 and 20.000



Models between Compac 25.500 and 140.000

Reference Conditions

- *Operating Pressure : 7 bar (100psi)
- *Operating Temperature : 35°C / 95°F
- *Room Temperature : 25°C / 77°F
- *Pressure Dewpoint : +3°C +/- 1/37,4°F
- *Available in different voltages and frequency

Limit Conditions

- *Max. Working Pressure : 16 bar (232 psi)
- *Max. Operating Temperature : 60°C / 140°F
- *Min. Room Temperature : +5°C / 41°F
- *Max. Room Temperature : +50°C / 122°F
- *Please Check Correction Factors

Formula

$$\text{REAL FLOW-RATE} = \frac{\text{NOMINAL FLOW-RATE}}{\text{FE} \times \text{FOS} \times \text{AG} \times \text{FÇİ}}$$

CORRECTION FACTOR

CORRECTION FACTORS FOR DIFFERENT WORKING PRESSURES

BAR	5	6	7	8	9	10	11	12	13	14	15	16
FE:1	0.9	0.96	1.0	1.04	1.06	1.09	1.10	1.20	1.24	1.31	1.39	1.48

CORRECTION FACTORS FOR DIFFERENT AMBIENT TEMPERATURES

°C	20	25	30	35	40	45	50
FOS:1	1.05	1.0	0.98	0.93	0.84	0.76	0.7

CORRECTION FACTORS FOR DIFFERENT INLET AIR TEMPERATURES

°C	30	35	40	45	50	55	60
AG:1	1.29	1.0	0.92	0.78	0.65	0.65	0.45

CORRECTION FACTORS FOR DIFFERENT DEWPOINT TEMPERATURES

°C	2	3	6	8	10
FÇİ:1	0.8	1.0	1.14	1.25	1.36



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