COMPAC AIR DRYER

Patented Products

Compressed Air Refrigeration Dryer
COMPAC 900 - 120.000 Series

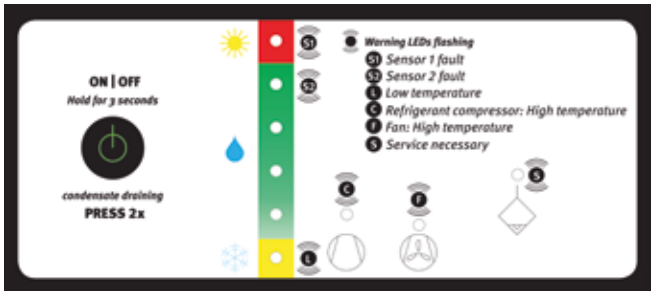
WARRANTY

7/24
HOT LINE
+90 530 280 90 36

HIGH EFFICIENCY HEAT EXCHANGER DESIGN

A design which has no welded parts with the feature of easy assembly and disassembly. It uses ambient temperature for pre-refrigeration of incoming hot air. Efficient heat transfer with aluminium panel fins, a design which is not affected by the problems which arise from freezing at low temperatures.

INTELLIGENT CONTROL SYSTEM



- Display of pressure dew point through a clear scale
- Sound and light 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 by pressing the on / off button twice
- Integrated signal output for external alarm (12 Volt - 50 mA or 220 Volt - 10 A)

DURABLE RIGHT DESIGN and COPPER PIPING

A stable and excellent vibration free refrigeration system.

GOST-R Certification Mark.

SIMPLE BY-PASS LINE WITH INLET and OUTLET FILTERS

Inlet and outlet filters and heat exchanger on the same line up till C-8500 model.

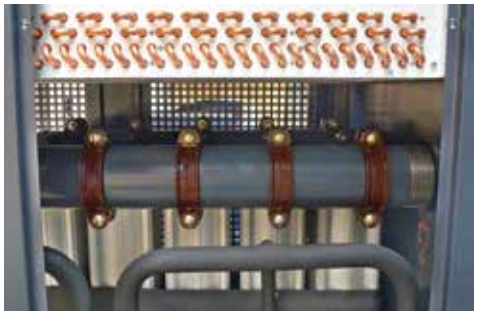
*Outlet compressed air quality
ISO 8573-1; 2010
Oil Class :1..... 0,01 mg / m^3
Dust Class :1..... 0,1 micron
Water Class :4..... 6 gram / m^3

VARIOUS HARDWARE SMALL SIZE

1- Water Seperator
2- Inlet Filter _____ 1 micron dust, 0,5mg / m^3 oil
3- Heat Exchanger _____ Water concent: 6mg / m^3
4- Active Carbon Tower ____ Oil 0,003mg / m^3
5- Outlet Filter _____ 0,1 micron dust
6- Zeromat _____ Zero air loss water drain

IMPRESSIVE DESIGN and INNOVATION

COMPAC: Premium features and economical price



DESIGNED FOR TROPICAL CONDITIONS

INLET TEMPERATURE °C	PRESSURE DEW-POINT (7 BAR G)	WATER CONCENT
+35 °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	T. max. = 0,1 ~ 0,2 bar (g) (at 3 °C Pressure Dewpoint)
» COMPAC.....0	Series Standard Design
» COMPAC.....1	Series Cold Air Outlet (+3 °C) Design. (for treatment before a N_2 / O_2 generator)
» COMPAC.....2	Series High Inlet Temperature (+70 °C) Design
» COMPAC.....3	Series High Operating Pressures 50 bar (g)

PRODUCTION NORMS & METHODS

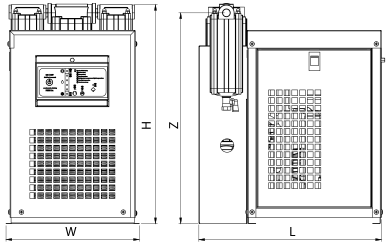
2006/42/EC	Machine Safety Directive
2014/30/EU	Electromagnetic Compatibility Directive
2014/35/EU	Low Voltage Directive
EN ISO 12100	2010
EN 60204-1	2006+A1:2009/AC:2010
EN 61000-6-2	2005/AC:2005
EN 61000-6-4	2007/A1:2011

COMPAC COMPRESSED AIR DRYER TECHNICAL DATA

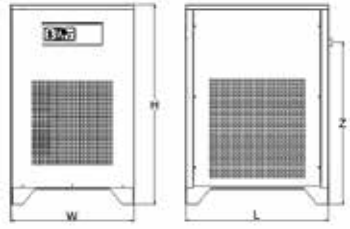
Compac Model	bar	psi	m³/min	m³/h	cfm	V/Ph/Hz	Connection Size	L	W	H	Z	Kg	Gas
COMPAC 900	16	232	0,9	54,0	31,8	230/1/50-60	1/2”	470	345	590	545	30	R-134 a
COMPAC 1200	16	232	1,2	72,0	42,4	230/1/50-60	1/2”	470	345	590	545	31	R-134 a
COMPAC 1800	16	232	1,8	108,0	63,6	230/1/50-60	3/4”	470	345	665	610	32	R-134 a
COMPAC 2200	16	232	2,2	132,0	77,7	230/1/50-60	3/4”	470	345	665	610	32	R-134 a
COMPAC 2600	16	232	2,6	156,0	91,9	230/1/50-60	1”	580	480	790	735	44	R-134 a
COMPAC 3100	16	232	3,1	186,0	109,6	230/1/50-60	1”	580	480	790	735	45	R-134 a
COMPAC 3700	16	232	3,7	222,0	130,8	230/1/50-60	1”	580	480	790	735	47	R-134 a
COMPAC 5500	16	232	5,5	330,0	194,4	230/1/50-60	1”	690	520	1090	1040	79	R-134 a
COMPAC 6500	16	232	6,5	390,0	229,7	230/1/50-60	1½”	690	520	1090	1040	83	R-134 a
COMPAC 8500	16	232	8,5	510,0	300,4	400/3/50-60	2”	855	735	1195	1085	140	R-407 c
COMPAC 11000	16	232	11,0	660,0	388,7	400/3/50-60	2”	855	735	1195	1085	140	R-407 c
COMPAC 13000	16	232	13,0	780,0	459,4	400/3/50-60	2”	855	735	1195	1085	150	R-407 c
COMPAC 17800	16	232	17,8	1.068,0	629,1	400/3/50-60	2½”	1105	830	1380	1090	226	R-407 c
COMPAC 20000	16	232	20,0	1.200,0	706,8	400/3/50-60	2½”	1105	830	1380	1090	234	R-407 c
COMPAC 25500	16	232	25,5	1.530,0	901,2	400/3/50-60	3”	1395	830	1665	1085	273	R-407 c
COMPAC 30000	16	232	30,0	1.800,0	1060,2	400/3/50-60	3”	1395	830	1665	1085	330	R-407 c
COMPAC 35500	16	232	35,5	2.130,0	1254,6	400/3/50-60	4”	1395	830	1665	1085	334	R-407 c
COMPAC 40000	16	232	40,0	2.400,0	1413,6	400/3/50-60	4”	1395	830	1665	1085	348	R-407 c
COMPAC 45000	16	232	45,0	2.700,0	1590,3	400/3/50-60	4”	1850	950	2300	1570	480	R-407 c
COMPAC 50000	16	232	50,0	3.000,0	1767,0	400/3/50-60	DN-150	1850	950	2300	1570	552	R-407 c
COMPAC 60000	16	232	60,0	3.600,0	2120,4	400/3/50-60	DN-150	1850	950	2300	1570	700	R-407 c
COMPAC 71000	16	232	71,0	4.260,0	2509,1	400/3/50-60	DN-150	1850	950	2300	1570	800	R-407 c
COMPAC 80000	16	232	80,0	4.800,0	2827,2	400/3/50-60	DN-150	2600	950	2300	1570	950	R-407 c
COMPAC 90000	16	232	90,0	5.400,0	3180,6	400/3/50-60	DN-150	2600	950	2300	1570	1250	R-407 c
COMPAC 106000	16	232	106,0	6.360,0	3746,0	400/3/50-60	DN-200	2600	950	2300	1570	1380	R-407 c
COMPAC 120000	16	232	120,0	7.200,0	4240,8	400/3/50-60	DN-200	2600	950	2300	1570	1500	R-407 c

OUR MODELS CAN BE PREPARED TO BE OPERATED AT FREQUENCIES OF 50Hz AND 60Hz DEPENDING ON YOUR REQUIREMENTS THEREFORE CAN BE USED IN MARINE APPLICATIONS.

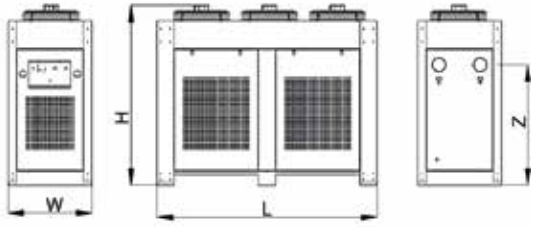
COOLER FLUID TYPES CAN BE CHANGED WHEN NECESSARY (R407c - R404a)



Models between Compac 900 and 6.500



Models between Compac 8.500 and 20.000



Models between Compac 25.500 and 120.000

OUR COMPANY MAY CHANGE THE VALUES IN THE CATALOGUE ACCORDING TO THE RESEARCH AND DEVELOPMENT STUDIES.

CORRECTION FACTORS

CORRECTION FACTORS FOR DIFFERENT OPERATING PRESSURES

BAR	4	5	6	7	8	9	10	11	12	13	14	15	16
FE:1	0,8	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

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. Operating Pressure : 16 bar (232psi)
- 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

REAL FLOW RATE: $\frac{\text{NOMINAL FLOW RATE}}{\text{FE x FOS x AG x FÇİ}}$

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