

Air Treatment

1. Refrigerant Dryers - Compac Dryers

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 (12V DC signal).

Durable Design and Copper Piping

A stable and excellent vibration free refrigeration system.

Simple By-pass Line With Inlet and Outlet Filters

Inlet and outlet filters and heat exchanged on the same line up, up to Compac8500 model.

Outlet pressurized air quality: ISO8573-1; 2010

- Oil Class: 1.....0.01mg/m³
- Dust Class: 1.....0.1micron
- Water Class: 4.....6 gram/m³

Various Hardware Small Size

1. Water Separator
2. Inlet Filter – 1 micron dust, 0.5mg/m³ oil
3. Heat exchanger – Water content: 6mg/m³
4. Active Carbon Tower – Oil 0.003mg/m³
5. Outlet Filter – 0.1micron dust
6. Zeromat – Zero air loss water drain

Impressive Design and Innovation

COMPAC: Premium features and economical price

Durable Design and Copper Piping

Inlet Temperature °C	Pressure Dew Point (7 Bar)	Water Content
+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 (at 3°C Pressure Dew point)
Compac 0	Series Standard Design
Compac 1	Series Cold Air Outlet (+3°C) Design, (for treatment before an N2/O2 generator)
Compac 2	Series High Inlet Temperature (+70°C) Design
Compac 3	Series High Operating Pressure 50 bar

Production Norms and Methods

Two (2) year mechanical warranty on dryer

1. Compac dryers (900l/min – 140 000l/min)

COMPAC DRYERS TECHNICAL DATA											
Part number	Bar	m ³ /min	CFM	Length (mm)	Width (mm)	Height (mm)	Weight (KG)	Gas	Connection Size	V/PH/Hz	Filtration
COMPAC 900	16	0,9	31,8	415	330	540	30	R-134a	½"	230/1/50	WITH FILTRATION ATTACHED
COMPAC 1200	16	1,2	42,4	415	330	625	31	R-134a	½"	230/1/50	
COMPAC 1800	16	1,8	63,6	415	330	625	32	R-134a	¾"	230/1/50	
COMPAC 2200	16	2,2	77,7	415	370	670	32	R-134a	¾"	230/1/50	
COMPAC 2600	16	2,6	91,9	555	470	720	44	R-134a	1"	230/1/50	
COMPAC 3100	16	3,1	109,6	555	470	720	45	R-134a	1"	230/1/50	
COMPAC 3700	16	3,7	130,8	555	470	720	47	R-134a	1"	230/1/50	
COMPAC 5500	16	5,5	194,4	720	505	985	79	R-134a	1"	230/1/50	
COMPAC 6500	16	6,5	229,7	720	505	985	83	R-134a	1 ½"	230/1/50	
COMPAC 8500	16	8,5	300,4	905	735	1190	140	R-407c	2"	400/3/50	WITH FILTRATION NOT ATTACHED
COMPAC 11000	16	11	388,7	905	735	1190	140	R-407c	2"	400/3/50	
COMPAC 13000	16	13	459,4	905	735	1190	150	R-407c	2"	400/3/50	
COMPAC 17800	16	17,8	629,1	1145	780	1385	226	R-407c	2 ½"	400/3/50	
COMPAC 20000	16	20	706,8	1145	780	1385	234	R-407c	2 ½"	400/3/50	
COMPAC 25500	16	25,5	901,2	1145	780	1385	273	R-407c	3"	400/3/50	
COMPAC 30000	16	30	1060,2	1450	830	1670	330	R-407c	3"	400/3/50	
COMPAC 35500	16	35,5	1254,6	1450	830	1670	334	R-407c	4"	400/3/50	
COMPAC 40000	16	40	1413,6	1450	830	1670	348	R-407c	4"	400/3/50	
COMPAC 45000	16	45	1590,3	1450	830	1670	480	R-407c	4"	400/3/50	
COMPAC 50000	16	50	1767	1450	830	1670	552	R-407c	4"	400/3/50	WITHOUT FILTRATION
COMPAC 60000	16	60	2120,4	2020	950	1820	700	R-407c	DN-100	400/3/50	
COMPAC 71000	16	71	2509,1	2290	950	2350	800	R-407c	DN-100	400/3/50	
COMPAC 80000	16	80	2827,2	2290	950	2350	950	R-407c	DN-100	400/3/50	
COMPAC 90000	16	90	3180,6	2290	950	2350	1250	R-407c	DN-100	400/3/50	
COMPAC 106 000	16	106	3746	2800	1250	2350	1380	R-407c	DN-125	400/3/50	
COMPAC 120 000	16	120	4240,8	2800	1250	2350	1500	R-407c	DN-125	400/3/50	
COMPAC 140 000	16	140	4947,6	2800	1250	2350	2000	R-407c	DN-125	400/3/50	

Reference Conditions	
Operating Pressure	7 Bar
Operating Temp	35°C
Room Temp	25°C
Pressure Dewpoint	3°C

Limit Conditions	
Max. Working Pressure	16 Bar
Max. Operating Temp	60°C
Min. Room Temp	5°C
Max. Room Temp	50°C

Correction Factors

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	1.04	1.06	1.09	1.1	1.2	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	0.98	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	0.92	0.78	0.65	0.65	0.45

Correction factors for different Dewpoint Temperatures

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

Formula

Real Flow Rate =	Nominal Flow Rate
	FE x FOS x AG x FCI

