

High Pressure Dryer HPKT 30 - 2000



- FROM 30 TO 2000 Nm³/h
- R134a or R404a
- 230V-1-50Hz or 400V-3-50Hz or 440V-3-60Hz
- AIRCOOLED CONDENSER
- 50 bar ELECTRONIC TIMED DRAIN
- AUTOMATIC CRANK-CASEHEATER
- PRESSURE AND TEMPERATURE REGULATED REFRIGERANT CIRCUIT
- EVAPORATION PRESSURE ADJUSTMENT
- EVAPORATION PRESSURE GAUGE
- RECESSED CONTROL PANEL
- EFFICIENTLY VENTILATED
- DETACHABLE FRONT PANEL FOR EASY ACCESS
- ANTI-CORROSION STEEL FRAME CHASSIS
- ZINC PLATED STEEL, POWDER COATED CABINET
- CE CERTIFIED

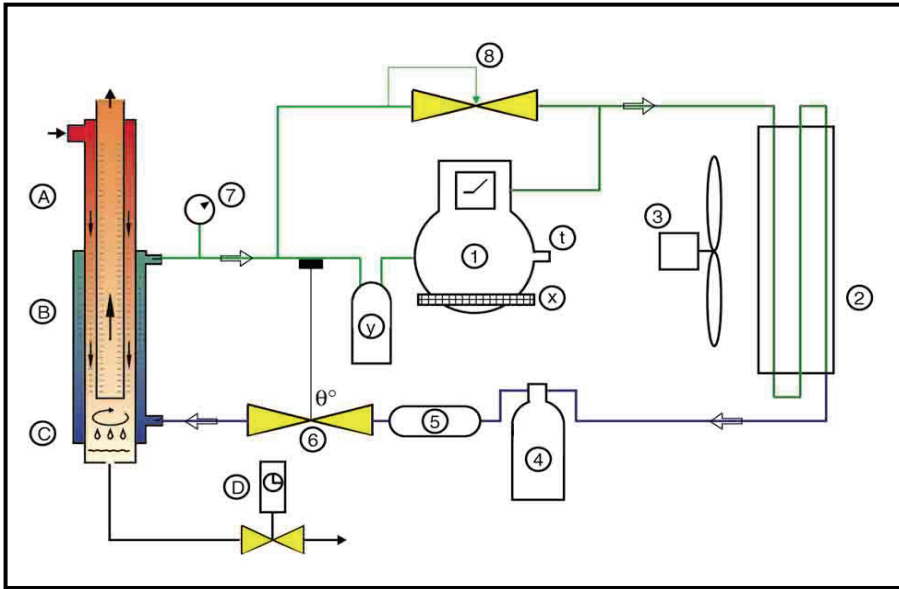
AN EFFICIENT TECHNOLOGY : THE PET DRYER RANGE WITH THE "3 in 1" MONOBLOC

- Highly effective, unique in its simplicity and totally reliable, our heat exchanger provides superb drying performances to the PET dryer.
- The air/air economizer reduces by 58 % the electrical requirements: you save on both running and capital costs.
- The refrigerated separator gives much better performances than any other one because it prevents from water re-evaporation after separation: coalescence is guaranteed up to 150% of the nominal airflow.
- Because the "3 in 1" doesn't require the interconnecting lines needed by the others, it saves on pressure drop: less energy is required from your compressor.
- The thermostatic expansion valve, which ensures the filling without any risk of liquid stroke in the compressor, is combined with a by-pass valve keeping the evaporation pressure steady. These regulation devices, together with other thermo and pressure switches provide reliable and efficient working all the time. Thus, the fridge compressor is totally protected.
- The dew point remains constant from 0 to 100 % of the load
- Our super dryers are completely tested for leakages and running performances.
- Wherever installed after the air compressor, the PET dryers always perform efficiently.

OPTIONS :

- 380V-3-60Hz
- Thermostatic warning (free of potential contact)
- Water cooled condenser
- Air pressure and temperature manometers

High Pressure Dryer HPKT 30 - 410



AIR CIRCUIT:

- A: air-air economizer
- B: air-refrigerant exchanger
- C: refrigerated separator
- D: electronic timed drain

REFRIGERANT CIRCUIT:

- 1: hermetic compressor
- 2: air cooled condenser
- 3: condenser fan
- 4: liquid receiver
- 5: filter dryer
- 6: thermostatic expansion valve
- 7: evaporation pressure gauge
- 8: hot gas by-pass valve

SAFETY DEVICES:

- t: klixon
- x: crank-case heater
- y: liquid separator

TYPE	Airflow		In/Out (G")	ΔP (bar)	Condenser airflow (m³/h)	Power Abs. (kW)	Dimensions			Weight (kg)	Refrigerant
	(l/min)	(m³/h)					H (mm)	L (mm)	W (mm)		
HPKT 30	500	30	3/8	0,020	100	0,2	335	500	360	25	R134a
HPKT 40	666	40	3/8	0,085	370	0,2	335	500	360	25	R134a
HPKT 55	916	55	3/8	0,140	340	0,2	335	500	360	30	R134a
HPKT 90	1500	90	3/4	0,015	370	0,2	475	677	410	45	R134a
HPKT 135	2250	135	3/4	0,030	340	0,3	475	677	410	50	R134a
HPKT 190	3166	190	3/4	0,040	410	0,5	475	677	410	55	R134a
HPKT 220	3666	220	3/4	0,040	800	0,6	475	677	410	60	R134a
HPKT 360	6000	360	1	0,070	980	0,9	603	700	490	80	R134a
HPKT 410	6833	410	1	0,080	980	1,1	603	700	490	90	R134a

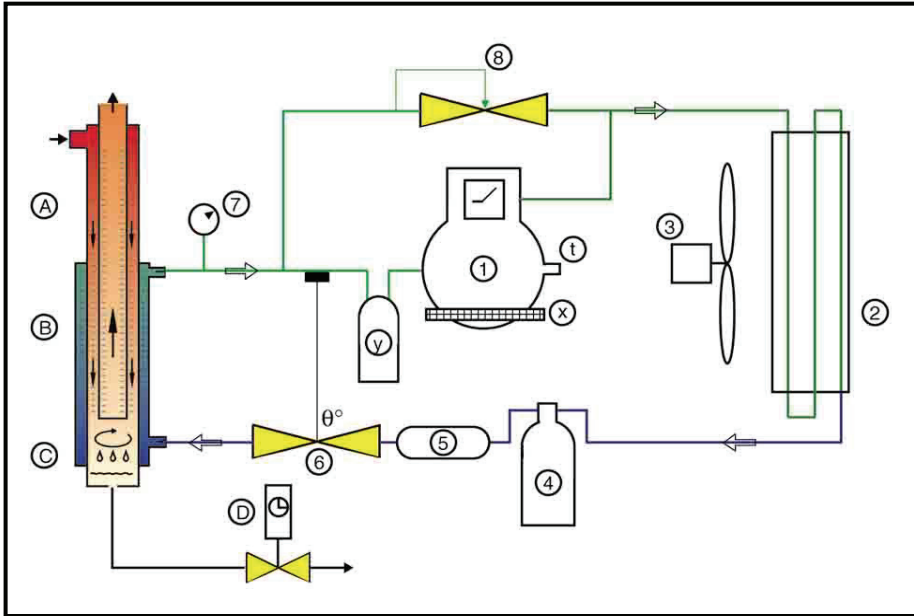
Working pressure: nom. 45 bar, max. 50 bar
 Inlet temperature: nom. 35°C, max. 60°C
 Ambient temperature: nom. 25°C, max. 45°C, min. 4°C

HOW TO SELECT A PET DRYER:

- Determine your highest requested airflow.
- Enter your data (pressure, ambient and inlet T°) in the CORRECTION FACTORS table.
- Corrected flow = requested flow x F1 x F2 x F3
- Select a dryer matching the corrected flow. (if not, choose the dryer directly bigger)

CORRECTION FACTORS											
Pressure	20	25	30	35	40	45	50				
Factor F1	1,15	1,10	1,06	1,04	1,02	1	0,99				
Ambient					20	25	30	35	40	42	
Factor F2					0,93	1	1,07	1,15	1,22	1,27	
Inlet temp.					30	35	40	45	50	55	60
Factor F3					0,83	1	1,16	1,32	1,45	1,54	1,69

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AIR CIRCUIT:

- A: air-air economizer
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- D: electronic timed drain

REFRIGERANT CIRCUIT:

- 1: hermetic compressor
- 2: aircooled condenser
- 3: condenser fan
- 4: liquid receiver
- 5: filter dryer
- 6: thermostatic expansion valve
- 7: evaporation pressure gauge
- 8: hot gas by-pass valve

SAFETY DEVICES:

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TYPE	Airflow		On/Out (G")	ΔP (bar)	Condenser airflow (m ³ /h)	Power Abs. (kW)	Dimensions			Weight (kg)	Refrigerant
	(l/min)	(m ³ /h)					H	L (mm)	W (mm)		
HPKT 450	7500	450	1 1/2	0,09	980	1,0	1040	750	700	130	R134a
HPKT 575	9580	575	1 1/2	0,11	980	1,1	1320	800	700	160	R134a
HPKT 700	11660	700	1 1/2	0,13	980	1,4	1320	800	700	190	R134a
HPKT 900	15000	900	1 1/2	0,11	2250	1,4	1320	800	700	195	R134a
HPKT 1150	19170	1150	DN 50	0,10	2250	2,1	1585	800	700	285	R134a
HPKT 1300	21660	1300	DN 50	0,07	2250	2,1	1585	800	700	355	R134a
HPKT 2000	33330	2000	DN 50	0,12	4800	3,4	1585	1000	1120	455	R134a

Working pressure: nom. 45 bar, max. 50 bar,

Ambient temperature: nom. 25°C, max. 45°C, min. 4°C

Inlet temperature: nom. 35°C, max. 60°C

CORRECTION FACTORS

Pressure (bar)	20	25	30	35	40	45	50				
Factor F1	1,15	1,10	1,06	1,04	1,02	1	0,99				
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- Technical details to change without notice -