



## DRYTEC HIGH PRESSURE DRYER RANGE





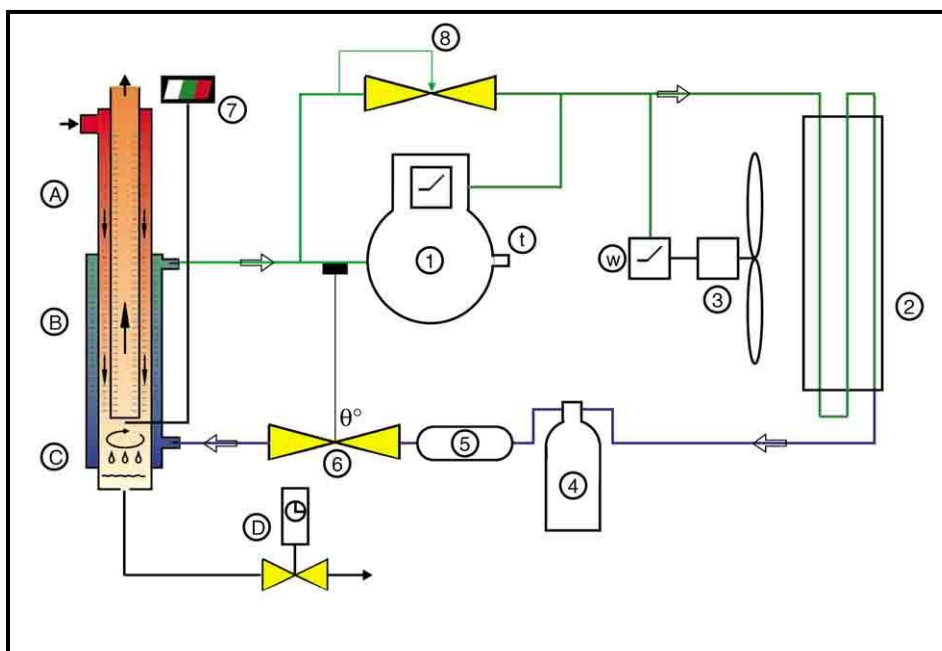
VT 1450 HP

- FROM 33 TO 3700 Nm<sup>3</sup>/h
- R134a or R404a
- 230V-1-50Hz or 400V-3-50Hz or 440V-3-60Hz
- AIRCOOLED CONDENSER
- 50 bar ELECTRONIC TIMED DRAIN
- AUTOMATIC CRANK-CASE HEATER
- 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
- 5 YEARS GUARANTEE ON THE HEAT EXCHANGER
- CE CERTIFIED

### **AN EFFICIENT TECHNOLOGY : THE HP 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 HP 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 dewpoint remains constant from 0 to 100 % of the load
- Our HP dryers are completely tested for leakages and running performances.
- Wherever installed after the air compressor, the HP dryers always perform efficiently.

**Do not jeopardize your compressed air installation. Ask for our HP dryers - everytime.**



## AIR CIRCUIT :

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

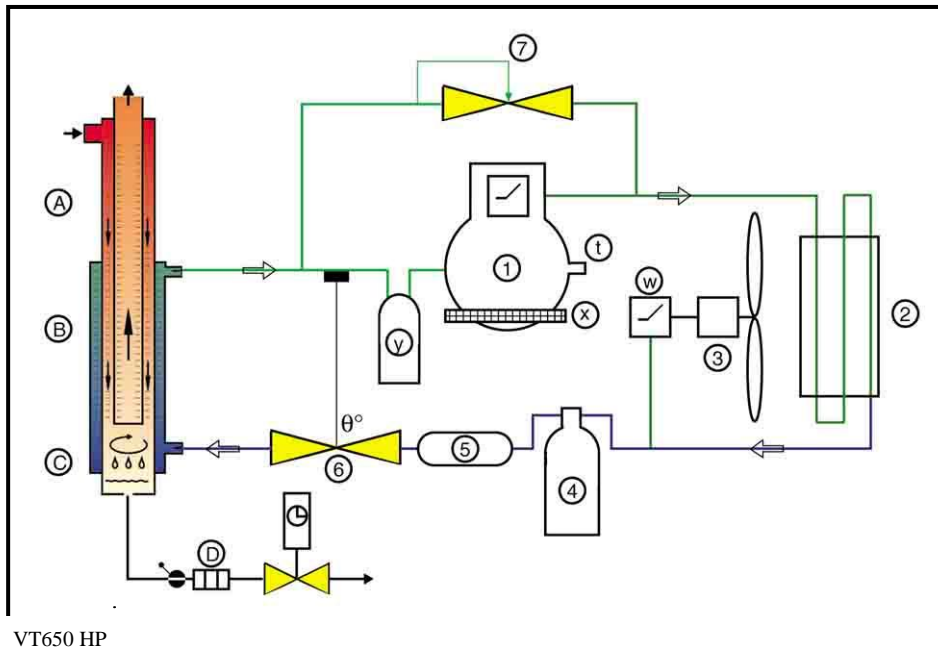
## REFRIGERANT CIRCUIT :

- 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 :

- t : compressor thermo-switch
- u : low pressure switch
- v : high pressure switch
- w : fan pressure switch
- x : crank-case heater
- y : liquid separator
- z : suction temperature switch

TYPE	Airflow		In/Out (G")	$\Delta P$ (bar)	Condenser airflow (m <sup>3</sup> /h)	Power Abs. (kW)	Dimensions			Weight (kg)	Refrigerant
	(l/min)	(m <sup>3</sup> /h)					H (mm)	L (mm)	W (mm)		
VT 12 HP	550	33	3/8	0,020	100	0,2	335	500	360	25	R134a
VT 24 HP	633	38	3/8	0,085	370	0,2	335	500	360	25	R134a
VT 36 HP	900	54	3/8	0,140	340	0,2	335	500	360	30	R134a
VT 55 HP	1450	87	3/4	0,015	370	0,2	475	677	410	45	R134a
VT 80 HP	2250	135	3/4	0,030	340	0,3	475	677	410	50	R134a
VT 110 HP	3167	190	3/4	0,040	410	0,5	475	677	410	55	R134a
VT 130 HP	3634	218	3/4	0,040	800	0,6	475	677	410	60	R134a
VT 170 HP	4267	256	1	0,040	980	0,7	603	677	490	70	R134a
VT 220 HP	5918	355	1	0,070	980	0,9	603	700	490	80	R134a
VT 270 HP	6868	412	1	0,080	980	1,1	603	700	490	90	R134a



VT650 HP

#### AIR CIRCUIT :

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- B : air-refrigerant exchanger
- C : refrigerated separator
- D : electronic timed drain, manual isolating valve & strainer

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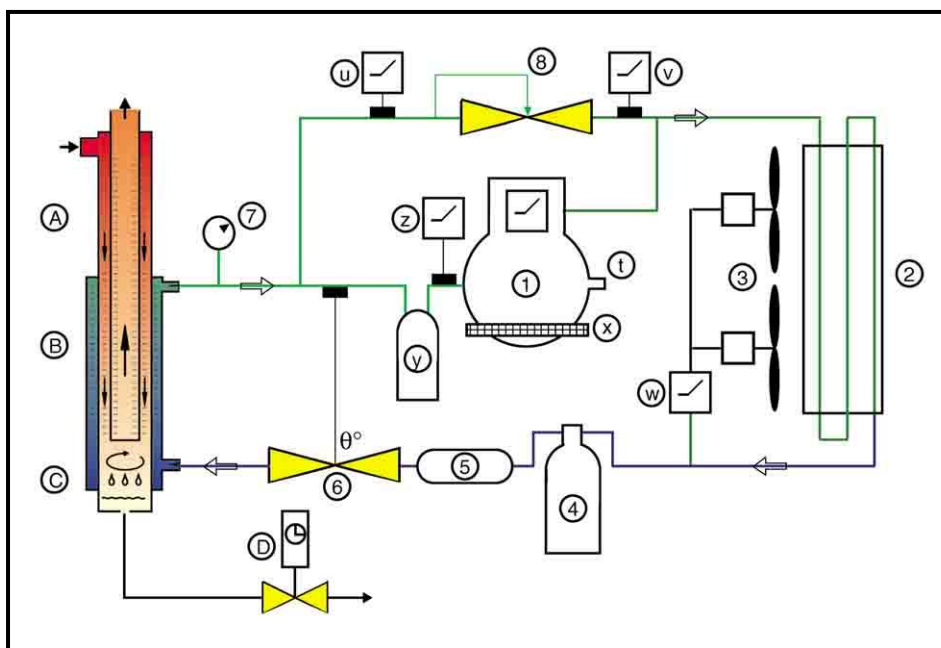
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- 6 : thermostatic expansion valve
- 7 : hot gas by-pass valve

#### SAFETY DEVICES :

- t : compressor thermo-switch
- w : fan control
- x : crank-case heater
- y : liquid separator

TYPE	Airflow		In/Out (G")	$\Delta P$ (bar)	Condenser airflow (m <sup>3</sup> /h)	Power Abs. (kW)	Dimensions			Weight (kg)	Refrigerant
	(l/min)	(m <sup>3</sup> /h)					H (mm)	L (mm)	W (mm)		
VT 350 HP	7685	461	1 1/2	0,09	980	1,0	1040	750	700	130	R134a
VT 440 HP	9618	577	1 1/2	0,11	980	1,1	1320	800	700	160	R134a
VT 650 HP	11750	705	1 1/2	0,13	980	1,4	1320	800	700	190	R134a
VT 700 HP	16937	904	1 1/2	0,11	2250	1,4	1320	800	700	195	R134a





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	(l/min)	(m <sup>3</sup> /h)					H (mm) (mm)	L (mm)	W		
VT 915 HP	19154	1149	DN50	0,10	2250	2,1	1455	800	700	285	R134a
VT 1035 HP	21754	1305	DN50	0,07	2250	2,1	1455	800	700	355	R134a
VT 1200 HP	27472	1648	DN50	0,07	2250	2,7	1455	1000	1120	455	R134a
VT 1450 HP	31222	1873	DN50	0,12	4800	3,4	1455	1000	1120	465	R134a
VT 1740 HP	38491	2309	DN50	0,12	7000	4.2	1455	1000	1120	505	R404a
VT 1940 HP	40742	2444	DN50	0,12	7000	4.7	1455	1000	1120	530	R404a
VT 2200 HP	48876	2932	DN50	0,12	6600	5.2	1455	1000	1120	565	R404a
VT 2704 HP	47083	2825	DN50	0.22	6000	6.1	1455	1000	1120	540	R404a
VT 3554 HP	61670	3700	DN50	0.25	11000	8.9	1455	1800	1120	645	R404a



### OPTIONS :

- 400V-3-60Hz
- Thermostatic warning (free of potential contact)
- Watercooled condenser
- Air pressure and temperature manometers
- Ultra high pressure (upto 350 bars)

CORRECTION FACTORS											
Pressure (bar)	20	25	30	35	40	45	50				
Factor F1	1,19	1,10	1,07	1,04	1,02	1	0,98				
Ambient T° (°C)					20	25	30	35	40	42	
Factor F2 (R134a) (R404a)					0,93	1 1	1,07 1,11	1,15 1,23	1,22 1,30	1,27 1,35	
Inlet T° (°C)					30	35	40	45	50	55	60
Factor F3					0,83	1	1,18	1,38	1,59	1,83	2,04

### HOW TO SELECT A HP 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)

Subject to technical changes without prior notice