

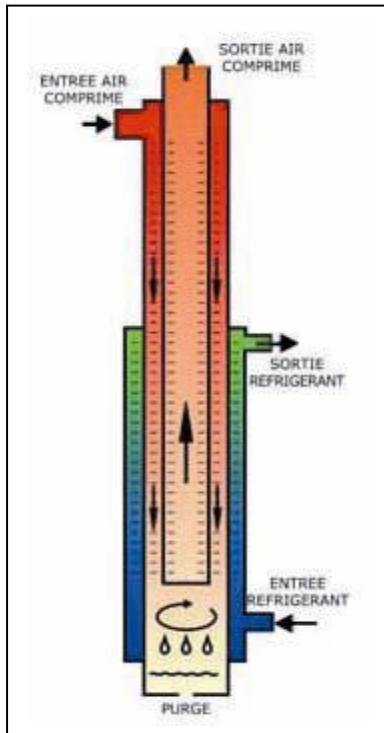
DRYTEC REFRIGERANT DRYERS



The secret is inside



More than 30 years of experience... a warranty for performance



Rugged construction

The robustness and reliability associated with the modular anti-icing design of the exchangers allow us to grant a **5 years warranty**.

The 3 in 1 design

The alignment of the economizer (air / air exchanger), the air / refrigerant exchanger and the separator makes the heat exchanger compact, modular and easy to isolate.

Unsurpassed exchange surface

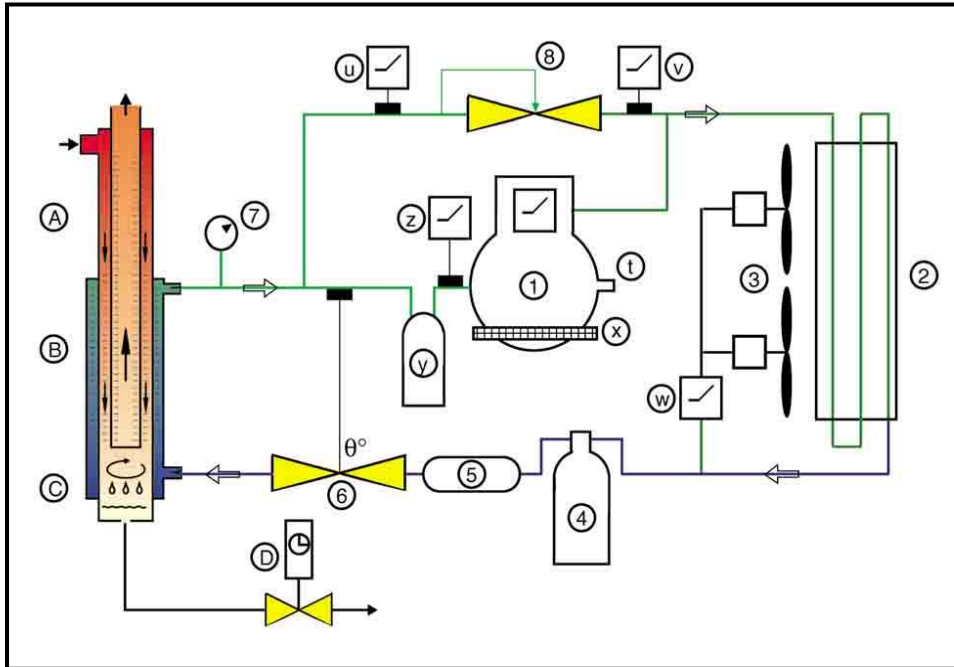
The heart of the exchanger is made of numerous copper fins. The manufacturing process of these fins gives an **exchange surface, typically ten times larger** than a conventional dryer.

Efficient separation

The separator included in the 3 in 1 exchanger is located in the coldest place. The low temperature allows a **very efficient separation**.



The cooling circuit



AIR CIRCUIT :

- A : air-air economizer
- B : air-refrigerant exchanger
- C : refrigerated separator
- D : pneumatically assisted electronic timed drain & manual isolating valve

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 :

- s : inlet prefilter
- 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



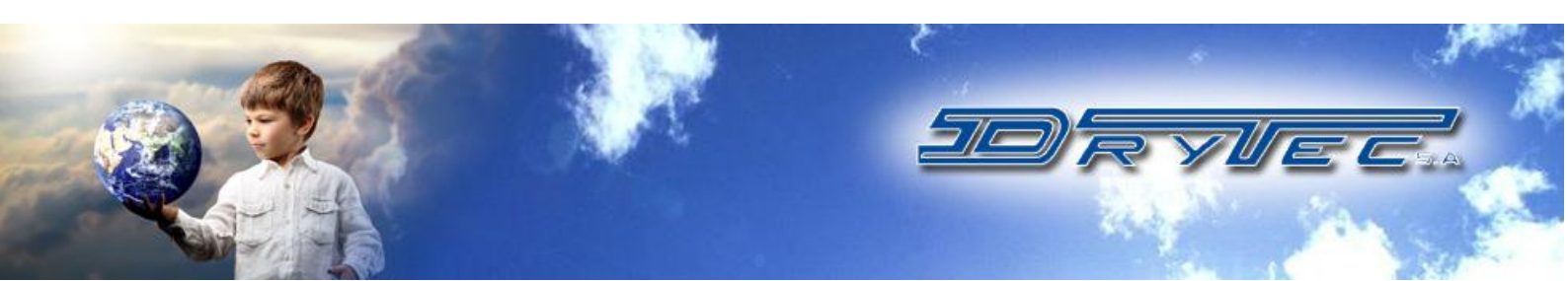
Pre-filter

Dryers with multi-modules from VT630 to VT7200 are equipped with 25 μ filtration that is integrated in the inlet manifold.



Dewpoint indicator

All three-phase dryers are equipped with a digital dewpoint indicator.

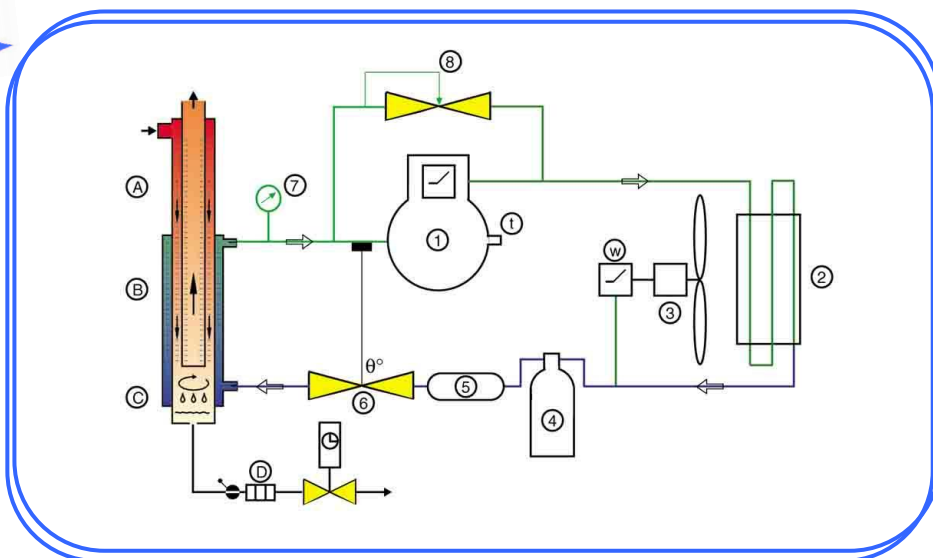


VT MINI/MIDI RANGE

From 11 to 330 m³/h



The best quality dedicated to low flow applications



AIR CIRCUIT :

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

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
- w : fan pressure switch

VT MAXI RANGE



Approved technology

Steady dewpoint

Low pressure drop

Simplicity = Reliability

AIR CIRCUIT :

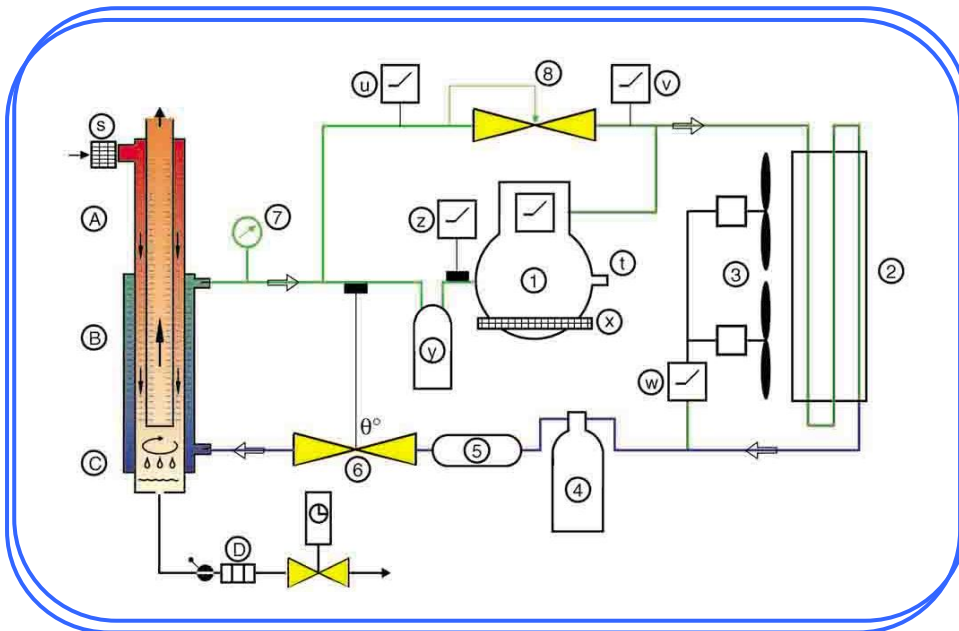
*A : air-air economizer
B : air-refrigerant exchanger
C : refrigerated separator
D : pneumatically assisted electronic timed drain & manual isolating valve*

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 :

*s : inlet prefilter
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*



VT HIGH PRESSURE RANGE



**All the benefits from
the 3 in 1 heat
exchanger for
applications up to
50 bar**

- **5 years warranty on the heat exchanger**
- **Automatic electronic drain**
- **Suitable for off-shore applications**

APPROVED QUALITY FOR P.E.T. BLOWING APPLICATIONS

**DRYTEC MANUFACTURES REFRIGERANT DRYERS FOR
PRESSURES UP TO 350 BAR**

DRYERS FOR SPECIAL APPLICATIONS



Marine and Off-Shore

Drytec has a long experience in manufacturing low and high pressure dryers with 60 Hz motors dedicated to this particular requiring market.



Nuclear

Active companies in the nuclear field rely on Drytec know how for their refrigerant dryers.

Drytec has the technical capability to realize the engineering of drying projects for different applications and markets.



16 BAR VT RANGE

Type	Flow		Power KW	Racc.	Dimensions			Weight kg	Voltage V
	Nm³/min	Nm³/h			H	L	I		
VT 15	0,183	11	0,25	1/2"	460	500	360	30	230-1-50
VT 20	0,264	16	0,25	1/2"	460	500	360	30	230-1-50
VT 30	0,480	29	0,25	1/2"	460	500	360	30	230-1-50
VT 50	0,732	44	0,25	1/2"	460	500	360	30	230-1-50
VT 70	1,14	68	0,28	3/4"	495	676	407	55	230-1-50
VT100	1,62	97	0,35	3/4"	495	676	407	55	230-1-50
VT 130	2,22	133	0,58	3/4"	495	676	407	55	230-1-50
VT 160	2,58	155	0,66	3/4"	495	676	407	60	230-1-50
VT 220	3,6	216	0,8	1 1/4"	710	675	485	85	230-1-50
VT 270	4,5	270	1,1	1 1/4"	710	675	485	95	230-1-50
VT 330	5,4	324	1,3	1 1/4"	710	675	485	95	230-1-50
VT 430	7,2	432	1,1	1 1/2"	985	550	670	125	230-1-50
VT 500	8,4	504	1,3	2"	1235	695	745	165	230-1-50
VT 630	10,5	630	1,4	2"	1235	695	745	215	230-1-50
VT800	13,3	798	1,9	2"	1235	695	745	235	230-1-50
VT 950	15,6	936	2,4	3"	1440	700	800	280	400-3-50
VT1100	18,6	1098	2,6	3"	1440	700	800	280	400-3-50
VT 1300	21	1260	2,6	3"	1440	700	800	325	400-3-50
VT 1500	24	1440	3	3"	1537	1120	1000	435	400-3-50
VT 1700	28,5	1710	4,3	3"	1537	1120	1000	435	400-3-50
VT 2100	34,8	2088	5	3"	1537	1120	1000	490	400-3-50
VT 2300	38,4	2304	5,6	3"	1537	1120	1000	490	400-3-50
VT 2700	44,4	2664	6,2	4"	1820	1000	1120	665	400-3-50
VT 3200	52,5	3132	6,9	4"	1820	1000	1120	705	400-3-50
VT 4100	67,8	4068	10	4"	2000	1120	1500	900	400-3-50
VT 4700	78	4680	12,4	DN150	2000	1120	1500	995	400-3-50
VT 5600	93	5580	12,6	DN150	2000	1120	1840	1490	400-3-50
VT 6300	105	6300	14,2	DN150	2000	1120	1840	1575	400-3-50
VT 7200	120	7200	16,2	DN150	2039	1500	2160	1770	400-3-50

ISO 7183 & 8573-1
PNEUROP 6611 class 4

Nominal PRESSURE : 7 bar
Maximum pressure : 16 bar
Maximum ambient temperature : 43°C
Maximum inlet temperature : 50°C

OPTIONS :

- 400V-3-60Hz
- Thermostat with alarm contact
- Water condensor
- Dewpoint indicator
(Standard on threephase dryers)
- Economizer

Correction factors

Pressure (bar)	4	5	6	7	8	10	12	14	16
Factor F1	1,25	1,14	1,06	1	0,96	0,9	0,86	0,82	0,8
T' ambient(°C)			20	25	30	35	40	43	50
Factor F2			0,92	1	1,07	1,14	1,22	1,28	1,5
T'inlet (°C)			30	35	40	45	50	60	
Factor F3			0,85	1	1,18	1,39	1,67	2,1	



50 BAR RANGE

Type	Flow		Power kW	Conn.	Voltage V / Hz	Dimensions H x L x l (mm)	Weight kg	Ref.
	m ³ /h	m ³ /min						
VT 12 HP	33	0,55	0,2	3/8"	220-1-50Hz	335 X 500 X 360	25	R134a
VT 24 HP	38	0,63	0,2	3/8"	220-1-50Hz	335 X 500 X 360	25	R134a
VT 36 HP	54	0,9	0,2	3/4"	220-1-50Hz	335 X 500 X 360	30	R134a
VT 55 HP	87	1,45	0,2	3/4"	220-1-50Hz	475 X 677 X 410	45	R134a
VT 80 HP	135	2,25	0,3	3/4"	220-1-50Hz	475 X 677 X 410	50	R134a
VT 110 HP	190	3,17	0,5	3/4"	220-1-50Hz	475 X 677 X 410	55	R134a
VT 130 HP	218	3,63	0,6	3/4"	220-1-50Hz	475 X 677 X 410	60	R134a
VT 170 HP	256	4,27	0,7	1"	220-1-50Hz	603 X 677 X 490	70	R134a
VT 220 HP	355	5,91	0,9	1"	220-1-50Hz	603 X 700 X 490	80	R134a
VT 270 HP	412	6,87	1,1	1"	220-1-50Hz	603 X 700 X 490	90	R134a
VT 350 HP	461	7,68	1	1 1/2"	220-1-50Hz	1040 X 750 X 700	130	R134a
VT 440 HP	577	9,62	1,1	1 1/2"	220-1-50Hz	1320 X 800 X 700	160	R134a
VT 650 HP	705	11,8	1,4	1 1/2"	400-3+N-50	1320 X 800 X 700	190	R134a
VT 700 HP	904	15,07	1,4	1 1/2"	400-3+N-50	1320 X 800 X 700	195	R134a
VT 915 HP	1149	19,15	2,1	DN50	400/3/50-440/3/60	1585 X 800 X 700	285	R134a
VT 1035 HP	1305	21,75	2,1	DN50	400/3/50-440/3/60	1585 X 800 X 700	355	R134a
VT 1200 HP	1648	27,47	2,7	DN50	400/3/50-440/3/60	1585 X 1000 X 1120	455	R134a
VT 1450 HP	1873	31,22	3,4	DN50	400/3/50-440/3/60	1585 X 1000 X 1120	465	R134a
VT 1740 HP	2309	38,48	4,2	DN50	400/3/50-440/3/60	1585 X 1000 X 1120	505	R404a
VT 1940 HP	2444	40,73	4,7	DN50	400/3/50-440/3/60	1585 X 1000 X 1120	530	R404a
VT 2200 HP	2932	48,87	5,2	DN50	400/3/50-440/3/60	1585 X 1400 X 1120	565	R404a

ISO 7183 & 8573-1
PNEUROP 6611 classe 4

Nominal PRESSURE : 7 bar
Maximum pressure : 16 bar
Maximum ambient temperature : 43°C
Maximum inlet temperature : 50°C

CORRECTION FACTORS

Pressure (bar)	20	25	30	35	40	45	50				
Facteur F1	1,15	1,10	1,06	1,04	1,02	1	0,99				
T° ambient (°C)					20	25	30	35	40	42	
Facteur F2					0,93	1	1,07	1,15	1,22	1,27	
T° inlet (°C)					30	35	40	45	50	55	60
Facteur F3					0,83	1	1,16	1,32	1,45	1,54	1,69

ADJUSTMENT :

- Take the required maximum flow.
- Take the values in the table
- Adjusted Flow = Maximum flow x F1 x F2 x F3
- Take a dryer corresponding to that flow.

OPTIONS :

- 400V-3-60Hz
- Thermostat with alarm report (free potentiel contact)
- Water condenser
- Temperature and pressure indicator