



**Solid, simple and smart:
advanced reliability in
compressed air**

**DRY 20-1260
refrigerant dryers**



User benefits

Simple installation

- Light and compact design
- Easy to transport
- Easy and fast installation using the optional filter supports and by pass option (DRY 20-130)

Solid quality

- High reliability was a key driver when developing the DRY dryer range
- First-class components tested under extreme operating conditions
- Constant dewpoint under any load conditions

Easy maintenance and accessibility

- Low maintenance level
- Reliable components easily accessible
- Long service intervals

Costs saving

- Very little maintenance required
- Low energy consumption
- Energy savings due to low pressure drops
- No loss of compressed air due to level-controlled condensate drain

Advanced refrigerant solutions

- Low refrigerant gas load
- Refrigerant gas with low GWP

DRY refrigerant dryer

The inlet air of a compressor contains humidity and contaminants like dust, oil, etc. During the compression these contaminants reach a high concentration. This can cause wear and corrosion to the downstream equipment, with potential costly interruption to production and reduction in the efficiency and service life of the equipment used.

By cooling down the compressed air, a refrigerant dryer removes the largest part of the water content. Our DRY range ensures high quality dry air, increasing efficiency and productivity as well as the life span of your equipment and tools.

The benefit of refrigerant dryers

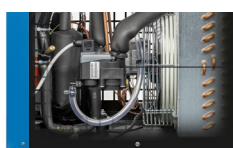
Clean and dry air

- Increase your overall productivity
- Improve your final product quality
- Protect your downstream equipment against corrosion, rust and leakages
- Avoid costly service interventions

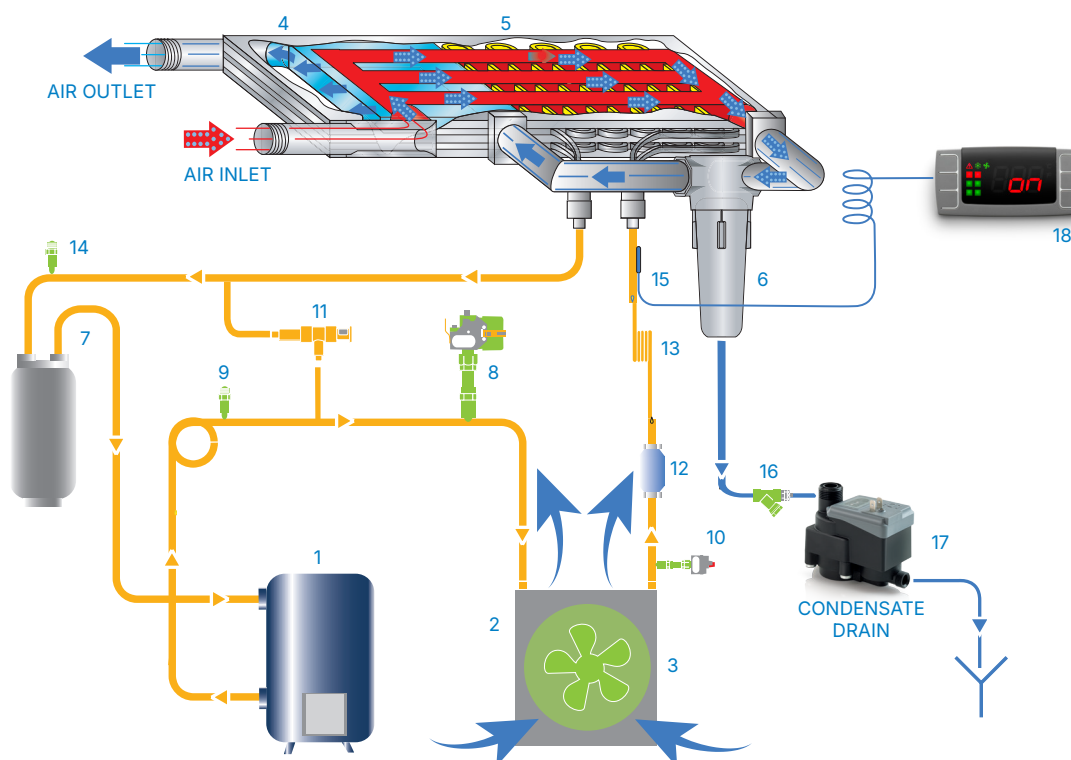
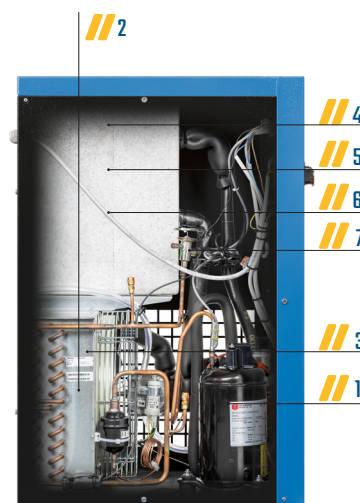


The smart choice for high reliability

1. **Refrigerant compressor** driven by an electric motor, cooled using refrigerant fluid and protected against thermal overload.
2. **Refrigerant condenser** air-cooled and with a large exchange surface for high thermal exchange.
3. **Motor-driven fan** for the condenser cooling air flow.
4. **Air-air exchanger** with high thermal performance and low pressure drop.
5. **Air/refrigerant evaporator** with high thermal performance and low pressure drop.
6. **Condensate separator** for efficient condensate removal.
7. **Hot gas bypass valve** controls the refrigerant capacity under all load conditions.
8. **Automatic discharge of condensate** energy saving and self adjusting, allows only moisture to discharge and prevents waste discharge of valuable compressed air.



8



Drying principle

Diagram for DRY 1260

- | | | |
|--|--------------------------------|---------------------------------------|
| 1. Refrigerant fluid compressor | 7. Refrigerant fluid separator | 14. Service valve |
| 2. Condenser | 8. Maximum pressure switch | 15. Dewpoint thermometer |
| 3. Motor driven fan | 9. Service valve | 16. Impurity collector |
| 4. Air/air heat exchanger | 10. Fan pressure switch | 17. Automatic discharge of condensate |
| 5. Air/Refrigerant Evaporator | 11. Hot gas bypass valve | 18. PDP indicator |
| 6. Condensate separator with a demister filter | 12. Refrigerant fluid filter | |
| | 13. Capillary tube | |

Product features and options

PDP Indicator

The operation of the DRY dryer is monitored by an electronic controller indicating all relevant information:

Technical details:

- Status of the refrigerant dryer
- Status of the fan
- Dew point indication

Alarm display:

- High or low dew point
- Fan probe failure (DRY 85-530)
- Service reminder



Potential free contact (DRY 250-530)

- PDP alarm
- High refrigerant temperature
- Fan probe failure

(DRY 690-1260)

General alarm:

- High/low PDP alarm
- High-refrigerant temperature
- Probe failures
- High-pressure switch
- Electrical failure

Drain alarm

Remote start/stop



Intelligent drain discharge

The full refrigerant dryer range is equipped with a level-controlled condensate drain, a range using electronic sensors to discharge only condensate and without wasting any compressed air.

Benefits

- No loss of compressed air
- Energy saving
- Low noise level



Available options (for DRY 20-130)

Filter support and bypass*

The optional bypass allows the system to operate using the filters only during maintenance or malfunction of the dryer, thus avoiding any downtime.

Filter support*

This option allows two filters to be installed on the rear side of the dryer, reducing overall dimensions and installation costs.

* Filters are not included in the option.

Performance data

According to ISO 7183:2007

Model	Air Treatment Capacity			R410A - 50Hz		R513A - 50Hz		R513A - 60Hz		Inlet / Outlet connections	Dimensions (mm)	Weight up to
				Power consumption	Voltage	Power consumption	Voltage	Power consumption	Voltage			
	l/min	m³/h	cfm	W	V/Ph/Hz	W	V/Ph/Hz	W	V/Ph/Hz	gas/DN	A x B x C	Kg
DRY 20	266	16	9,4	–	–	130	230/1/50	170	230/1/60	3/4" M	493 × 350 × 450	19
DRY 25	350	21	12,4	–	–	130	230/1/50	170	230/1/60	3/4" M	493 × 350 × 450	19
DRY 45	600	36	21,2	–	–	164	230/1/50	172	230/1/60	3/4" M	493 × 350 × 450	19
DRY 60	850	51	30	–	–	190	230/1/50	222	230/1/60	3/4" M	493 × 350 × 450	20
DRY 85	1200	72	42,4	–	–	266	230/1/50	306	230/1/60	3/4" M	493 × 350 × 450	25
DRY 130	1800	108	63,6	–	–	284	230/1/50	364	230/1/60	3/4" M	493 × 350 × 450	27
DRY 165	2350	141	83	–	–	674	230/1/50	726	230/1/60	1" F	497 × 370 × 764	44
DRY 210	3000	180	106	–	–	716	230/1/50	763	230/1/60	1" F	497 × 370 × 764	44
DRY 250	3600	216	127	631	230/1/50	933	230/1/50	590	230/1/60	1" 1/2 F	557 × 460 × 789	62
DRY 290	4100	246	145	705	230/1/50	933	230/1/50	727	230/1/60	1" 1/2 F	557 × 460 × 789	60
DRY 360	5200	312	184	905	230/1/50	933	230/1/50	745	230/1/60	1" 1/2 F	557 × 460 × 789	64
DRY 460	6500	390	230	969	230/1/50	1276	230/1/50	1315	230/1/60	1" 1/2 F	587 × 580 × 899	82
DRY 530	7700	462	272	1124	230/1/50	1276	230/1/50	1325	230/1/60	1" 1/2 F	587 × 580 × 899	92
DRY 690	10000	600	353	1540	400/3/50	1912	400/3/50	2021	460/3/60	2" F	1070 × 805 × 962	157
DRY 830	12000	720	424	1980	400/3/50	1912	400/3/50	2341	460/3/60	2" F	1070 × 805 × 962	170
DRY 1040	15000	900	530	2010	400/3/50	2629	400/3/50	2511	460/3/60	2" 1/2 F	1070 × 805 × 962	176
DRY 1260	18000	1080	636	2770	400/3/50	2629	400/3/50	3334	460/3/60	2" 1/2 F	1070 × 805 × 962	188

Notes:

Reference conditions:

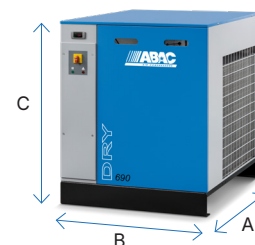
- Operating pressure: 7 bar (100 psi)
- Inlet temperature: 35°C
- Room temperature: 25°C
- Pressure dewpoint: +4°C +/-1
- Available in different voltages and frequencies

Optional for DRY 20-130:

- Bypass + filter support
- Filter support

Operating limit conditions:

- Max. operating pressure:
16 bar (232 psi) (DRY 20 up to 130)
14 bar (203 psi) (DRY 165 up to 1260)
- Max. inlet temperature:
55°C (60°C for DRY 690-1260)
- Min./Max. ambient temperature:
+5°C; 43°C
(+5°C; 46°C for DRY 690-1260)

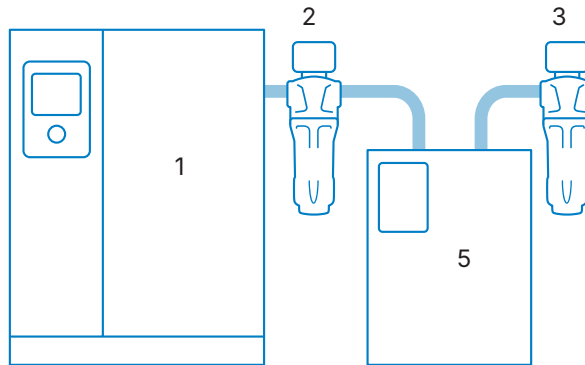


Correction factor for conditions differing from the project $K = A \times B \times C$

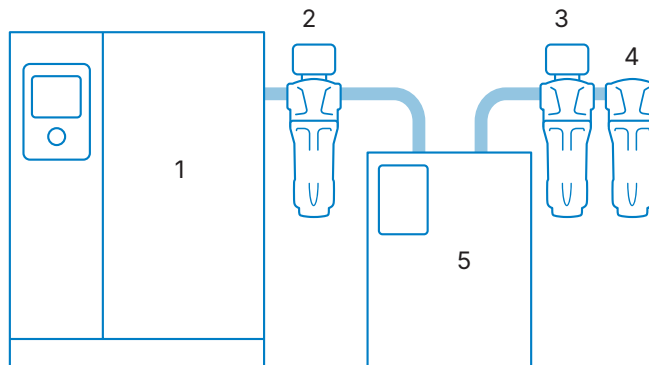
Room temperature	°C	25	30	35	40	43	46	Inlet temperature	°C	25	30	35	40	46	50	55	60
	A	1	0,91	0,81	0,72	0,67	0,62		B	1,1	1.05	1	0,82	0,69	0,58	0,49	0,42
Operating Pressure	bar	6	7	8	10	13	14	15	16	The new flow rate value can be obtained by dividing the current or real flow rate by the correction factor related to the real operation conditions.							
	C	0,97	1	1,03	1,07	1,12	1,15	1,16	1,17								

Typical installations

High quality air with reduced dew point (air purity to ISO 8573-1: class 1:4:2)



High quality air with reduced dew point and oil concentration (air purity to ISO 8573-1: class 1:4:1)



1. Compressor with after cooler
2. G filter
3. C filter
4. V filter
5. Refrigerant dryer

Vertical receiver is always suggested.



Air. Anytime. Anywhere.

**Solid, simple and smart:
advanced reliability in
compressed air**

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