

Your benefits with Smard Refrigeration dryer technology!

- Compact design, using minimum floor space
- Stainless steel plate heat exchanger technology
- Revolutionary digital scroll varying load controller
- Steady dewpoint performance
- Superior demister/separator technology



Smard 450 to 1635



Smard 2150 to 3500

Design specifications of Smard LRD series, models			450 - 1635	2150 - 3500
Medium	Compressed Air		●	●
Housing	Cabinet	Steel sheet metal	●	●
	Frame	Steel frame construction	●	●
Colour	Cabinet	White RAL 9001 powder coated	●	●
	Frame	Grey powder coated	●	●
Inlet/outlet	Flanges	Top position	●	▼
		Rear right position	▼	●
Refrigerant	R404A		●	▼
	R134a		▼	●
Condensor	Air cooled		●	■
	Water cooled		■	●
Heat exchangers	Stainless steel plate		●	●
Demister/separators	Stainless steel		●	●
IP rating	IP 44		●	●
Location	Indoor		●	●
Instrumentation	Digital multifunctional panel		●	▼
	Combined analog/digital instruments		▼	●
	Other instruments or controls		■	■
Drain system	electronic level controlled		●	●
Power supply	400V/3ph/50Hz		●	●
	other voltages		■	■
Controls	Hot gas bypass refrigerant system		●	●
	Digital Scroll Varying load controls		■	▼
	50/100% or 30/60/100% step load controls		▼	●

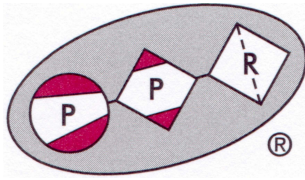
Options may vary per country, please consult factory.

Design conditions	Min.	Design	Max.	450 - 1635	2150 - 3500
Operating pressure	2 bar (g)	7 bar (g)	16 bar (g)	●	●
Inlet air temperature	+4°C	+35°C	+55°C	●	●
Ambient/cooling water temperature	+7°C	+25°C	+45°C	●	●

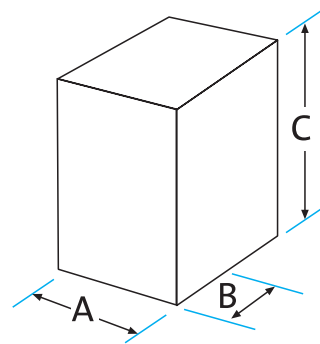
In case the actual operating conditions vary from the design conditions, please use the correction factors on the reverse side of this data sheet, for the right selection of your dryer.

Refrigerant compressed air dryers are preferably installed with a PPR SU (1 micron) dirt filter at the inlet and a PPR SU (0.01 micron) oil fine filter at the outlet of the dryer.

● Standard | ■ Optional | ▼ Not applicable



Model	Capacity	Dimensions (mm)			Weight	Connection	Power consumption
Smard	m ³ /h *	A	B	C	kg	flange	kW
450	1500	1270	1030	2162	480	DN 80	2.6
656	1800	1270	1030	2162	520	DN 80	4.2
680	2250	1270	1287	2162	690	DN 100	4.8
818	2700	1270	1287	2162	690	DN 100	6.0
950	3150	1438	1510	2162	880	DN 150	7.7
1090	3600	1438	1510	2162	880	DN 150	7.9
1365	4500	1438	1510	2162	1050	DN 150	9.6
1635	5400	1438	1510	2162	1200	DN 150	11.0
2150	7200	1576	3209	1464	1850	DN 150	12.2
2500	8400	1576	3209	1464	2000	DN 200	13.2
2800	9600	1576	3209	1464	2200	DN 200	15.2
3500	12000	1576	3209	1464	2600	DN 200	20.9



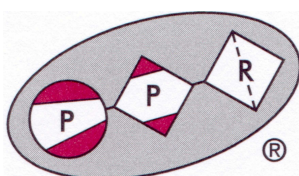
The following conversion factors need to be used to calculate the required dryer capacity for the actual operating conditions.

Multiplier for different inlet pressures in bar (g) (F1)															
bar (g)	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Multiplier (F1)	0.62*	0.72*	0.82*	0.90*	0.96*	1.00	1.04	1.07	1.10	1.13	1.15	1.17	1.19	1.20	1.21

Multiplier for different inlet temperatures in °C (F2)							
°C	+25	+30	+35	+40	+45	+50	+55
Multiplier (F2)	1.67*	1.202	1.00	0.84	0.71	0.63	0.55

F3 Multiplier for different air/water cooling temperatures in °C					
°C	+25	+30	+35	+40	+45
Multiplier (F3)	1.00	0.94	0.88	0.83	0.78

Important: Correction factors marked with a * can result in increased pressure drop over the dryer.
All data are subject to alteration without prior notice. Please confirm factory for confirmation.



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