

## Your benefits with Deltech® 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 656 to 1635



Smard 2150 to 3500

Design specifications of Smard LRD series, models			656 - 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	X-Drain: 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.	656 - 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.

Deltech refrigerant compressed air dryers are preferably installed with a Deltech PF (1 micron) dirt filter filter at the inlet and a Deltech HF (0.01 micron) oil fine filter at the outlet of the dryer.

Model	Capacity m <sup>3</sup> /h	Connection " BSP	Height	Width mm	Depth	Weight kg	el. Connection V/ph/hz	Power Consumption kW
<b>Smard LRD Series</b>								
Smard 656	1.800	DN 80	2162	1232	1030	520	400/3/50	4.90
Smard 680	2.250	DN 100	2162	1243	1301	690	400/3/50	5.50
Smard 818	2.700	DN 100	2162	1243	1301	690	400/3/50	7.00
Smard 950	3.150	DN 150	2162	1400	1510	880	400/3/50	8.70
Smard 1090	3.600	DN 150	2162	1400	1510	880	400/3/50	9.20
Smard 1365	4.500	DN 150	2162	1400	1510	1050	400/3/50	10.80
Smard 1635	5.400	DN 150	2162	1400	1510	1200	400/3/50	13.40
Smard 2150	7.200	DN 150	2462	1590	3245	1850	400/3/50	11.50
Smard 2500	8.400	DN 200	2462	1590	3245	2000	400/3/50	13.80
Smard 2800	9.600	DN 200	2462	1590	3245	2200	400/3/50	15.30
Smard 3500	12.000	DN 200	2462	1590	3245	2600	400/3/50	17.70

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

<b>Multiplier for different inlet pressures in bar (g) (F1)</b>															
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

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

<b>F3 Multiplier for different air/water cooling temperatures in °C</b>					
°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.