

Your benefits with Smart Refrigerant Dryers

- Lower energy consumption
- Corrosion-free air circuit made of copper and stainless steel
- Powder-coated steel construction
- Unique heat-exchanger technology



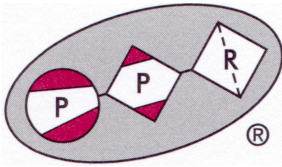
Standard models of the Smart refrigerant compressed air dryers		SC 10 -30	50-98	133-266	333-400
Medium	Compressed air	●	●	●	●
Housing	Steel	●	●	●	●
Colour - top panel	RAL 9001 (white) powder-coated	●	●	●	●
Colour - housing	Gray powder-coated	●	●	●	●
Inlet and outlet	On the right side panel	▼	▼	●	●
	On rear	●	●	▼	▼
	Bypass	■	■	■	■
Refrigerant	R134a	●	▼	●	●
	R407c	▼	●	▼	▼
Cooling	Air-cooled	●	●	●	●
	Water-cooled	▼	▼	▼	■
Heat exchanger	Cooper tubes	●	▼	▼	▼
	Stainless steel plates	▼	●	●	●
Location	Indoors	●	●	●	●
IP rating	IP 44	●	●	●	●
Dew point indication	Analogue gauge	●	●	●	▼
	Analogue LED	▼	●	●	▼
	Digital	▼	■	■	▼
	Digital with alarm lamp	▼	■	■	●
	Digital with potential free alarm contact	▼	■	■	●
Kondensatableiter	Zeitgesteuerter Kondensatableiter	●	●	●	●
	Level-controlled condensate drain, Type Bekomat®	▼	■	■	■
Power supply	230V 1 Phase 50 Hz	●	●	●	▼
	400V 3 Phase 50 Hz	▼	▼	▼	●
	Other power supplies on request	■	■	■	■

Options may vary from country to country.

Design data*	Min.	Design	Max.	SC 10 - 30	50 - 98	133 - 266	333 - 400
Inlet pressure	2 bar(g)	7 bar(g)	16 bar(g)	●	●	●	●
Inlet temperature	+4°C	+35°C	+49°C	●	●	●	max +55°C
Ambient temperature	+7°C	+25°C	+43°C	●	●	●	max +45°C

* Please use the correction factors in the table on the back side of this page if the conditions are different from the design conditions. Refrigerant compressed air dryers prefer a PPR SU prefilter and a AF afterfilter.

● Standard | ■ optional | ▼ nicht zutreffend

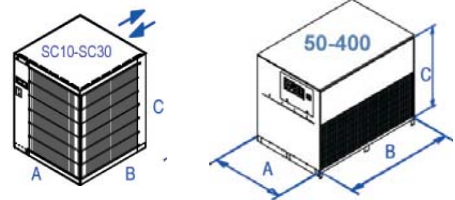


Typ	Capacity	Dimensions (mm)			Weight	Connection	Power consumption
	m³/h*	A	B	C			
Smard SC 10	30	320	320	381	31	R 3/8	0,24
Smard SC 18	60	368	368	569	40	R 3/4	0,41
Smard SC 24	80	368	368	569	42	R 3/4	0,46
Smard SC 30	100	500	500	569	46	R 3/4	0,57
Smard 50	150	480	526	510	50	R 3/4	0,55
Smard 60	180	330	761	525	56	R 1	0,60
Smard 83	250	330	761	525	60	R 1	0,65
Smard 98	295	330	761	525	69	R 1	0,85
Smard 133	400	437	904	762	83	R 1 1/2	1,10
Smard 166	500	437	904	762	96	R 1 1/2	1,20
Smard 201	605	518	953	759	99	R 1 1/2	1,50
Smard 266	800	541	953	759	105	R 2	1,90
Smard 333	1.100	1026	1223	1301	218	R 2 1/2	2,50
Smard 400	1.300	1026	1223	1301	295	R 2 1/2	2,90

*Nominal capacity acc. to DIN ISO 7183, pressure dew point +3°C

**Dimensions without filters

The capacity of the dryer is based on the intake volume of othe compressed air compressor at 20°C, 1 bar(a).



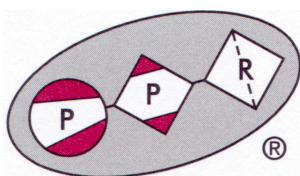
The factors below need to be used to convert the actual operating conditions to the required dryer capacities.

Correction factors for different inlet pressure in bar(g) F1													
bar(g)	3	4	5	6	7	8	9	10	11	12	13	14	
Smard SC10 - Smard 400	0.79	0.87	0.92	0.96	1.00	1.03	1.07	1.10	1.13	1.16	1.18	1.21	

Correction factors for different inlet temperatures in °C (F2)				
°C	+35	+40	+45	+50
Smard SC10 - Smard 400	1.00	0.84	0.71	0.63

Correction factors for different ambient air temperature in °C (F3)					
°C	+25	+30	+35	+40	+45
Smard SC10 - SC30	1.00	1.00	1.00	1.00	1.00
Smard 50 - Smard 400	1.00	0.94	0.89	0.83	0.78

Selection example:	Calculation
Air volume at dryer inlet (V1) : 850 m³/h	
Inlet pressure (F1) : 10 bar(g)	
Inlet temperature (F2) : +45°C	
Ambient temperature (F3) : +35°C	
V2 : Required dryer capacity	$V2 = \frac{V1}{F1 * F2 * F3} = \frac{850}{1,1 * 0,71 * 0,89} = 1223 \text{ m}^3/\text{h}$
	Selected: Smard 400



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