



- Large condenser for high ambient temperatures
- Anti-recycle feature for compressor protection
- Low pressure drop across advanced heat exchangers saves energy
- The dryers have been designed for nominal standard inlet conditions as per ISO 7183 - 2007
- Dryer quality class - ISO 8573 - 1 : 2010 (E) class -5-



Refrigeration Compressed Air Dryer

Coldspell

Specification of Dryer

Model	Item Code	Flow in scfm	Power consumption (KW) R134a/R407c	End connection	Dimension (mm)			Weight (kg)	Recommended Pre Filter** 5 Micron	Recommended Post Filter**	
					H	W	D			1 Micron	0.01 Micron
Coldspell 20	PH224	20	0.20/—	½" BSP	506	202	502	25	T100PEA	T100XIA	T100YIA
Coldspell 40	PH251	40	0.30/—	½" BSP	556	252	578	48	T100PEA	T100XIA	T100YIA
Coldspell 60	PH253	60	0.30/—	½" BSP	556	252	578	48	T100PEA	T100XIA	T100YIA
Coldspell 80	PH283	80	0.60/—	1" BSP	651	252	602	65	T250PEA	T250XIA	T250YIA
Coldspell 100	PH284	100	0.60/—	1" BSP	651	252	602	65	T250PEA	T250XIA	T250YIA
Coldspell 150	PH391	150	—/1.20	1½" BSP	1101	455	790	130	T250PEA	T250XIA	T250YIA
Coldspell 200	PH392	200	—/1.50	1½" BSP	1101	455	790	130	T600PEA	T600XIA	T600YIA
Coldspell 250	PH393	250	—/1.50	1½" BSP	1101	455	790	130	T600PEA	T600XIA	T600YIA
Coldspell 300	PH270	300	—/1.70	2" BSP	1251	490	1005	140	T600PEA	T600XIA	T600YIA
Coldspell 400	PH271	400	—/2.20	2" BSP	1251	490	1005	140	T851PEA	T851XIA	T851YIA
Coldspell 525	PH272	525	—/3.20	2" BSP	1251	490	1005	160	T851PEA	T851XIA	T851YIA
Coldspell 650	PH273	650	—/3.20	2" BSP	1251	490	1005	160	T1210PEA	T1210XIA	T1210YIA
Coldspell 800	PH274	800	—/4.60	4" NB	1305	640	1355	450	T1810PEA	T1810XIA	T1810YIA
Coldspell 1000	PH275	1000	—/5.20	4" NB	1305	640	1355	450	T1810PEA	T1810XIA	T1810YIA
Coldspell 1250	PH276	1250	—/7.10	4" NB	1305	640	1355	450	T2200PEA	T2200XIA	T2200YIA
Coldspell 1500	PH281	1500	—/7.40	4" NB	1460	1025	1115	550	T2600PEA	T2600XIA	T2600YIA
Coldspell 2000	PH282	2000	—/8.60	6" NB	1460	1025	1115	550	T3400PEA	T3400XIA	T3400YIA

For any other capacity, please contact us. Specifications are subject to change without notification.

Notes :



- 1) All models have air-cooled condenser as the default option. Water cooled option available on request.
- 2) Maximum working pressure: 16 bar
- 3) Refrigerants :
R134a : Coldspell 20 to 150
R407C : Coldspell 200 to 2000
- 4) ** To be ordered separately.

- Coldspell 20 — Wheel type indicator
- Coldspell 40 to 650 — LED display controller
- Coldspell 800 to 2000 — Advanced LCD display controller


How to Order

Requirement :	Inlet flow	100 scfm
	working pressure	5 Kg / cm ²
	Inlet temperature	45° C
	Ambient temperature	38° C
Referring tables :	Factor Pi	= 0.84
	Factor Ti	= 0.75
	Factor Ta	= 1
Dryer capacity	Flow	= 100
required :	$\frac{\text{Flow}}{\text{Pi} \times \text{Ti} \times \text{Ta}}$	$\frac{100}{0.84 \times 0.75 \times 1}$
		= 158 scfm
Choose the nearest higher model :		= Coldspell 150

Correction Factor


Air inlet temperature °C 	30	38	45	50	55	60
Correction factor (Ti)	1.3	1.0	0.75	0.65	0.5	0.4
Ambient temperature °C 	25	30	38	43	45	50
Correction factor (Ta)	1.36	1.18	1.0	0.86	0.80	0.70
Inlet pressure Kg/cm ²	3	5	7	9	12	
Correction factor (Pi)	0.6	0.84	1.0	1.11	1.21	

Rated nearest option B as per standard ISO 7183 - 2007



Our other range of products

- Timer based Auto Drain Valve
- Level Sensing Auto Drain Valve
- Desiccant Dryer (Heatless)
- Desiccant Dryer (Heated)
- Oxygen & Nitrogen Generators



Trident Pneumatics Private Limited

Door No.3/69G, 120, 2nd Cross, Codissia Industrial Park, Kallapalayam - 641 201, India. Ph : +91 73977 42565

e-mail : sales@tridentpneumatics.com / marketing@tridentpneumatics.com Website : www.tridentpneumatics.com