TRIDENT
engineering quality air & gas








- 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) H	W	D	Weight (kg)	Recommened Pre Filter** 5 Micron	Recommended Post Filter** 1 Micron	0.01 Micron
Coldspell 20	PH277	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	PH280	150	0.90/—	1½" BSP	828	322	986	123	T250PEA	T250XIA	T250YIA
Coldspell 200	PH278	200	—/1.50	1½" BSP	828	322	986	129	T600PEA	T600XIA	T600YIA
Coldspell 250	PH279	250	—/1.50	1½" BSP	828	322	986	129	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 required :	Flow / Pi x Ti x Ta	= 100 / 0.84 x 0.75 x 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		
Correction factor (Ta)	1.36	1.18	1.0	0.86		
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





Authorised Distributor

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