



- Large condenser for high ambient temperatures
- Low pressure drop across advanced heat exchangers saves energy
- The dryers have been designed for nominal standard inlet conditions as per ISO 7183 - 2007



Refrigeration Compressed Air Dryer

Coldspell Core

Model Coldspell	Item Code	Flow in scfm	Power consumption (KW)	Refri gerant	End connec tion	Dimension (mm)			Weight (kg)	Recomm- ened Pre Filter** 5 Micron	Recommended Post Filter**	
						H	W	D			1 Micron	0.1 Micron
Core 20	PH411	20	0.32	R134a	½"	381	182	504	20	T100PEA	T100XIA	T100YIA
Core 40	PH412	40	0.35	R134a	½"	531	253	577	25	T100PEA	T100XIA	T100YIA
Core 60	PH413	60	0.46	R134a	½"	531	253	577	25	T100PEA	T100XIA	T100YIA
Core 80	PH419	80	0.46	R134a	¾"	615	548	400	38	T250PEA	T250XIA	T250YIA
Core 100	PH420	100	1.03	R410A	1"	750	600	520	56	T250PEA	T250XIA	T250YIA
Core 150	PH421	150	1.03	R410A	1"	750	600	520	56	T250PEA	T250XIA	T250YIA
Core 200	PH422	200	1.4	R410A	1½"	750	600	520	58	T600PEA	T600XIA	T600YIA
Core 250	PH423	250	1.4	R410A	1½"	750	600	520	58	T600PEA	T600XIA	T600YIA
Core 300	PH424	300	1.45	R410A	1½"	875	650	650	75	T600PEA	T600XIA	T600YIA
Core 350	PH425	350	1.5	R410A	2"	875	650	650	79	T851PEA	T851XIA	T851YIA
Core 500	PH426	500	2.1	R410A	2"	960	752	745	102	T851PEA	T851XIA	T851YIA
Core 600	PH427	600	2.4	R410A	2"	1020	752	800	119	T1210PEA	T1210XIA	T1210YIA
Core 750	PH428	750	3.8	R410A	2½"	1126	927	795	168	T1810PEA	T1810XIA	T1810YIA
Core 900	PH429	900	4.05	R410A	2½"	1126	927	795	174	T1810PEA	T1810XIA	T1810YIA

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

Notes :

1) Maximum working pressure: 20-60 - 16 bar
80-900 - 13 bar

2) Refrigerants :

R134a : Coldspell Core 20 to 80

R410a : Coldspell Core 100 to 900

4) ** To be ordered separately.

Coldspell Core 20 - 60 — Wheel type indicator

Coldspell Core 80 to 900 — LED display controller

Correction Factor

K = Ta*Ti*Pi for Coldspell Core 20 up to Coldspell Core 60

(Ti) Inlet temperature (°C)	30	38	45	50	55	60
Correction factor	1.3	1	0.75	0.65	0.5	0.4
(TA) Ambient temperature (°C)	25	30	38	43	45	50
Correction factor	1.36	1.18	1	0.86	0.8	0.7
(Pi) Inlet pressure (barg)	3	5	7	9	12	
Correction factor	0.6	0.84	1	1.11	1.21	

K = Ta*Ti*Pi for Coldspell Core 80 up to Coldspell Core 900

(Ti) Inlet temperature (°C)	25	30	35	40	45	50	55	60	62
Correction factor	1	1	1	0.82	0.67	0.55	0.44	0.36	0.34
(Ta) Ambient temperature (°C)	25	30	35	40	45	46			
Correction factor	1	0.91	0.81	0.72	0.61	0.60			
(Pi) Inlet pressure (barg)	5	6	7	8	9	10	11	12	13
Correction factor	0.75	0.88	1	1.08	1.15	1.22	1.28	1.34	1.39

How to Order

Requirement :	Inlet flow	40 cfm
	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	= 40
required :	Pi x Ti x Ta	0.84 x 0.75 x 1
		= 64 cfm
Choose the nearest higher model :		= Coldspell Core 60

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