

Principle of Operation - Coldspell

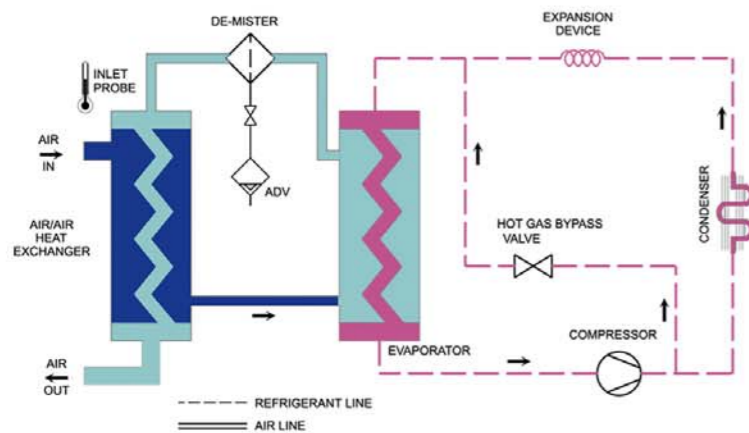
Warm compressed air enters the Air / Air Heat Exchanger where it is precooled by outgoing cold dry air. Pre-cooling makes it possible to use a smaller (More Economical) refrigeration Unit. The pre-cooled air enters the Air to Freon Heat Exchanger where it is cooled down to +3°C. At this temperature, water condenses into liquid droplets, which are removed from the air stream by a very efficient Demister and automatically discharged by a Trident Automatic Drain Valve. The Cold dry compressed air passes back through the secondary side of the Air to Air Heat Exchanger where it is reheated by the incoming warm air.

Reheating the outgoing compressed air increases the volume of the air enabling it to do more work and it also prevents downstream pipe sweating. Trident Heat Exchanger has no extended surfaces or sharp corners that collect dust, dirt or oil residue. Any dust, dirt and oil will be washed from the air system along with the condensed moisture at the De-mister.

Salient Features

- Advanced 3 in 1 integral heat exchanger.
- Easy read bar indicator electronic controller.
- LCD display controller.

Schematic Layout



Superior Design

	Eco Friendly Gas		Micro Processor based controller provides Dryer status
	Hot Gas By-Pass Valve Prevents evaporator freezing.		Optional Level sensing Condensate drain for No Air loss
	Simple and reliable Capillary Expander		LCD Controller



Specification of Dryer

Model	Flow in cfm	Power Consumption in KW		End Connection	Dimensions in mm			Weight in Kg
		R 134a	R 407c		H	W	D	
Coldspell 20	20	0.36	–	1" BSP	530	450	475	55
Coldspell 40	40	0.36	–	1" BSP	530	450	475	55
Coldspell 50	50	0.36	–	1" BSP	530	450	475	55
Coldspell 60	60	0.36	–	1" BSP	530	450	475	55
Coldspell 80	80	0.85	–	1" BSP	700	490	525	70
Coldspell 100	100	0.85	–	1" BSP	700	490	525	70
Coldspell 150	150	1.02	–	1½" BSP	845	670	700	110
Coldspell 200	200	–	1.40	1½" BSP	845	670	700	130
Coldspell 250	250	–	1.40	1½" BSP	845	670	700	130
Coldspell 300	300	–	1.85	2" NB	1140	830	1080	240
Coldspell 400	400	–	2.10	2" NB	1140	830	1080	260
Coldspell 500	500	–	2.40	2" NB	1140	830	1080	290
Coldspell 650	650	–	3.30	2" NB	1090	1000	1280	350
Coldspell 800	800	–	4.00	3" NB	1120	1400	1500	490
Coldspell 1000	1000	–	4.80	3" NB	1120	1400	1500	580
Coldspell 1250	1250	–	5.20	4" NB	1120	1400	1500	620
Coldspell 1500	1500	–	6.00	4" NB	1200	1180	1730	900
Coldspell 2000	2000	–	8.00	6" NB	1200	1180	1730	1020

For any other capacity contact factory. Specifications are subject to change without notification.

Recommended Accessories

Dryer model (2)	Sub Micron filter 5 micron (5)	Sub Micron filter 1 micron (3)	Sub Micron filter .01 micron (4)
Coldspell 20 to 50	G 100 P	G 100 X	G 100 Y
Coldspell 60 & 80	G 250 P	G 250 X	G 250 Y
Coldspell 100 & 150	G 250 P	G 250 X	G 250 Y
Coldspell 200 to 300	G 600 P	G 600 X	G 600 Y
Coldspell 400 to 500	G 851 P	G 851 X	G 851 Y
Coldspell 650	G 1210 P	G 1210 X	G 1210 Y
Coldspell 800 to 1000	G 1810 P	G 1810 X	G 1810 Y
Coldspell 1250	G 2200 P	G 2200 X	G 2200 Y
Coldspell 1500	G 2600 P	G 2600 X	G 2600 Y
Coldspell 2000	G 3400 P	G 3400 X	G 3400 Y

Installation Guide - ISO 8573.1 Class 1.4.1 Dirt, Water and Oil

