



BRED & TOUGH

AUSTRALIAN CONDITIONS



STAY **DRY** AS A BONE

CHAMPION'S COMPRESSED AIR DRYERS AND DELIVERS ENERGY SAVINGS OF UP TO 80%

Feature packed with powerful performance
and tough **Australian conditions** in mind



UNIQUE PERFORMANCE

- **CHAMPION's** own unique condensate removal system.
- Very low pressure dew points even at partial air flows.
- Optimum performance under varying conditions due to hot gas by-pass valve modulation and self-regulating 0-100% operation.
- Pressure actuated operation provides significant accuracy over temperature activated solutions.



ENVIRONMENTALLY CONSIDERATE

- Designed to significantly reduce your refrigerant charges
- Enviro-friendly R134A refrigerant is standard on models up to CRDii 059
- R407C refrigerant is standard on all models upwards from CRDii 075
- Scroll compressors protect staff with reduced noise levels
- Built using recyclable materials



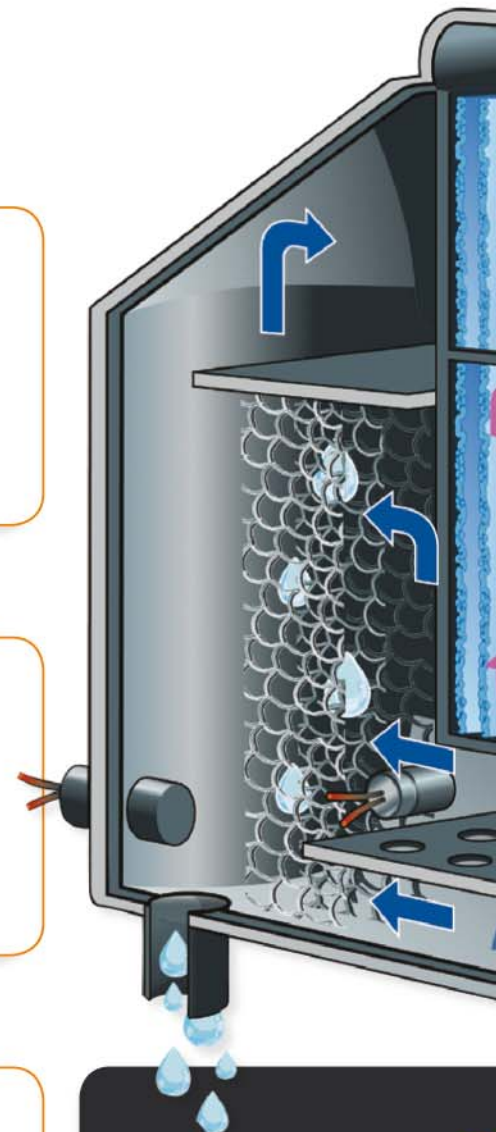
MAXIMUM POWER SAVINGS

- Minimum power consumption with continuous active separation.
- Scroll compressors reduce consumption by 30%.
- Special R407C refrigerant saves up to 10% energy comparatively.
- 60% saving provided by an oversized air to air heat exchanger.
- Energy savings of up to 80% in stand-by mode due to a cold mass function integrated within the microprocessor control.



ADVANCED DESIGN COMPRESSORS

- Only **CHAMPION** dryers use unique compliant scroll compressors as standard (from CRDii 120).
- 100% reliable and virtually indestructible (can withstand liquid returns).
- 50% less moving parts and low vibration extends machine life.
- Saves power and reduces refrigerant charge.
- Extremely quiet and user friendly.



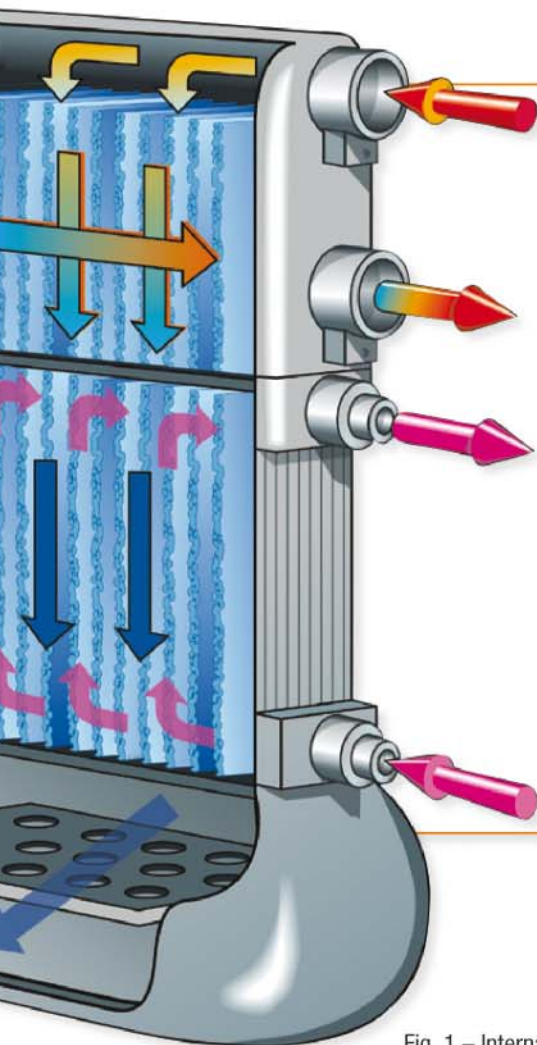
INSIDE AND OUT, THE CO
ARE AN ENVIRO-FRIEND

BENEFIT FROM:

- Easy to use microprocessor control provides constant dry air to your plant
- Compact, modular construction can
- Tough performance in hot, humid a and ambient 50°C.
- Servicing is a breeze, aided by rem easy front access and standard dra
- Environmentally friendly refrigerant
- Match with any **CHAMPION** air for a total solution to your compres

CHOOSE TO HAVE A CHA

EFFICIENTLY REMOVES CONDENSATE 90% IN HOT, HUMID AND DUSTY CONDITIONS



GUARANTEED MAXIMUM PERFORMANCE

- Extremely robust, all-in-one dry pack with no connection pipes.
- Offers among the lowest pressure drop levels in its class, guaranteeing considerable energy savings.

Maximum dewpoint performance is assured by:

- Large air channels leading to low air flow velocity.
- An oversized demister separator offering optimum condensate separation at partial air flows.
- A dewpoint sensor positioned in the air flow to ensure optimum control.
- The generously-sized air-to-air section and thermal shield insulation (TSI) contribute to a very low power consumption.

Fig 1 – Internal cross section
heat exchanger



Fig 2 – Internal cross section
scroll compressor

COMPRESSED AIR DRYERS TYPICAL, TOUGH DESIGN

(standard from CRDii 120)
unit.

can be installed virtually anywhere.

in hot and dusty conditions of 60°C inlet

removable and hinged panels,
fits in niche.

Accessories are standard.

with various compressors and aftercoolers
to meet your specific air needs.

CHAMPION AT YOUR SIDE



Contact us today and see how you can be a **CHAMPION** of your industry!

1300 CHAMPION (1300 242 674) OR
CHAMPIONCOMPRESSORS.COM.AU

MODEL	AIR FLOW WITH PRESSURE DEW POINT				NOMINAL ABSORBED POWER kW	POWER	WORKING PRESSURE	CONNECTION SIZES	DIMENSIONS W x H x D	WEIGHT Kg
	3°C		7°C							
	m³/min	CFM	m³/min	CFM						
CRDii 004	0.4	14	0.6	21	0.12	240/1/50	16 bar	1/2" BSP	450 x 425 x 210	19
CRDii 006	0.6	21	0.9	32	0.17	240/1/50	16 bar	1/2" BSP	450 x 425 x 210	19
CRDii 009	0.9	32	1.3	46	0.25	240/1/50	16 bar	1/2" BSP	500 x 500 x 210	24
CRDii 012	1.2	43	1.7	60	0.27	240/1/50	16 bar	1/2" BSP	500 x 500 x 210	24
CRDii 018	1.8	64	2.6	92	0.49	240/1/50	16 bar	3/4" BSP	520 x 560 x 225	27
CRDii 024	2.4	85	3.5	124	0.57	240/1/50	16 bar	3/4" BSP	520 x 560 x 225	31
CRDii 030	3.0	106	4.4	155	0.78	240/1/50	16 bar	3/4" BSP	520 x 560 x 225	35
CRDii 039	4.0	141	5.0	177	0.71	240/1/50	16 bar	1 1/2" BSP	555 x 600 x 425	52
CRDii 049	5.0	177	6.0	221	0.85	240/1/50	16 bar	1 1/2" BSP	555 x 600 x 425	58
CRDii 059	6.1	217	8.0	265	1.05	240/1/50	16 bar	1 1/2" BSP	555 x 600 x 425	60
CRDii 075	7.5	265	9.0	318	1.08	240/1/50	14 bar	1 1/2" BSP	703 x 945 x 562	83
CRDii 095	9.5	335	11.4	403	1.39	240/1/50	14 bar	1 1/2" BSP	703 x 945 x 562	83
CRDii 120	12	424	14.6	516	1.41	415/3/50	14 bar	2" BSP	706 x 1064 x 1046	145
CRDii 140	14	495	17.0	600	1.41	415/3/50	14 bar	2" BSP	706 x 1064 x 1046	145
CRDii 180	18	636	21.8	770	1.78	415/3/50	14 bar	2" BSP	706 x 1064 x 1046	155
CRDii 220	22	777	26.9	950	1.60	415/3/50	12 bar	2 1/2" BSP	806 x 1316 x 1166	230
CRDii 260	26	918	31.7	1121	2.30	415/3/50	12 bar	2 1/2" BSP	806 x 1316 x 1166	240
CRDii 300	30	1059	35.3	1246	2.90	415/3/50	12 bar	2 1/2" BSP	806 x 1316 x 1166	245
CRDii 350	35	1236	40.1	1504	3.59	415/3/50	12 bar	2 1/2" BSP	806 x 1316 x 1166	250
CRDii 460	46	1624	56.1	1981	3.54	415/3/50	12 bar	DN100	1007 x 1690 x 1245	470
CRDii 520	52	1836	62.6	2211	4.31	415.3.50	12 bar	DN100	1007 x 1722 x 1245	490
CRDii 630	63	2225	76.3	2695	5.25	415/3/50	12 bar	DN100	1007 x 1722 x 1657	580
CRDii 750	75	2649	90.8	3207	6.94	415/3/50	12 bar	DN150	1007 x 1722 x 1657	670
CRDii 900	90	3178	108.7	3839	11.1	415/3/50	12 bar	DN150	1007 x 1722 x 1657	690
CRDii 1200	120	4238	145.3	5128	11.2	415/3/50	12 bar	DN150	1007 x 2048 x 1657	830
CRDii 1500	150	5297	181.3	6403	15.3	415/3/50	12 bar	DN200	1007 x 2208 x 2257	1100
CRDii 1800	180	6357	217.7	7688	18.7	415/3/50	12 bar	DN200	1007 x 2208 x 2257	1190

Performance refer to air suction of FAD 20°C, 1 bar, and the following operating conditions: air suction 25°C/60%RH, 7 bar gauge working pressure, pressure dew point as shown above, 25°C cooling air temperature, 35°C compressed air inlet temperature. All indicated performance data refers to ISO 7183. Refrigerant R134A is standard on models up to CRDii 059 and R407C is standard on all models from CRDii 075 and up. **Note:** Electrical protection IP20 on models up to CRDii 059 and IP44 CRDii 1800.

WORKING PRESSURE BAR GAUGE		3	4	5	6	7	8	9	10	11	12	13	14	15	16
Correction Factor A	CRDii 004 to CRDii 059	0.73	0.83	0.9	0.95	1	1.03	1.07	1.09	1.12	1.13	1.15	1.15	1.18	1.19
	CRDii 075 to CRDii 1800	0.74	0.84	0.9	0.96	1	1.03	10.6	1.08	1.11	1.12	N/A			
INLET TEMPERATURE °C		30	35	40	45	50	55	60							
Correction Factor B	CRDii 004 to CRDii 059	1.22	1	0.83	0.69	0.58	0.49	0.43							
	CRDii 075 to CRDii 1800	1.30	1	0.84	0.70	0.59	0.49	0.41							
AMBIENT TEMPERATURE °C		20	25	30	35	40	45	50 <td colspan="7"></td>							
Correction Factor C	CRDii 004 to CRDii 059	1.05	1	0.94	0.88	0.81	0.75	0.68							
	CRDii 075 to CRDii 1800	1.06	1	0.94	0.88	0.82	0.76	0.7							
PRESSURE DEW POINT °C		3	5	7	10										
Correction Factor C	CRDii 004 to CRDii 059	1	1.12	1.24	N/A										
	CRDii 075 to CRDii 1800	1	1.10	1.25	1.40										

To obtain required air flow, multiply the air flow by the above correction factors (ie. Airflow x A x B x C x D)

ALL DRYERS ARE BACKED WITH FAST DELIVERY, INSTALLATION AND A RANGE OF SERVICE SOLUTIONS