



PACKAGED WATER CHILLERS

Nominal Capacities 10 to 115 kW.

AUSTRALIAN MADE WEATHERPROOF AIR COOLED CHILLERS

INDUSTRY APPLICATIONS

AIR CONDITIONING
COOLROOMS
PLASTICS
WINERIES
DAIRIES
FRUIT JUICE
ELECTROPLATING
PRINTING
DRY CLEANING
CONSTRUCTION
DISTILLERIES
SEAFOOD
CHEMICAL
LASERS
AQUA CULTURE
BAKERIES



Suitable for Water
Chilling down to 4°C
Glycol or Ethanol - Water
down to -10°C

UNITS CAN BE SUPPLIED WITH VARIOUS CONFIGURATIONS:

- Built in Water Tank
- Single or Dual Pumps
- Water Cooled Condensers (CW units)
- Heat Recovery Condensers (CAH units)
- Condensing Units for Remote Evaporators (CU units)

Packaged Water Chillers - Condensed Specifications

CA Model		10	15	20	26	33	40	52	66	80	90	100	115
Nominal Capacity	kW	11	15	20	26	33	39	52	66	79	89	99	117
Compressor motor kW (1)	kW	3.6	5.3	7.2	9.5	11.9	12.4	2 x 9.5	2 x 11.9	2 x 12.4	3 x 10.6	3 x 11.9	2 x 17.6
Minimum Water Flow	l/s	0.5	0.8	0.9	1.1	1.4	1.7	2.3	2.9	3.5	3.9	4.3	4.9
Max Water Flow	l/s	0.9	1.4	1.6	2.1	2.6	3.2	3.6	4.5	5.5	4.7	5.3	8.5
Standard Pump (2)	l/s	0.7	1.1	1.2	1.6	2.0	2.5	2.9	3.7	4.5	4.3	4.8	7.0
Available head	kPa	150	110	100	120	100	120	150	100	100	100	100	100
Motor power	kW	0.46	0.53	0.53	0.72	0.72	1.2	1.55	1.55	2.2	3	4	2.2
Condenser Fans	kW	0.55	0.55	0.55	0.55	0.55	2 x 0.55	2 x 0.55	2 x 0.55	4 x 0.55	4 x 0.55	4 x 0.55	4 x 0.55
Total Kilowatts(3)	kW	5.0	7.2	8.3	10.8	13.3	15.3	21.7	26.7	29.3	37	44.4	46.7
Run Load Amps/Phase(1)	Amps	13.8	15.3	18.5	20.4	25	30.7	38.8	48	59.4	74.4	73	75
Maximum Load Amps	Amps	17	19.5	22.5	27	32	36.5	52	62	71	99.5	95	88
Electrical Supply	415 volt / 3 phase / 50 cycles per second												
Optional Tank volume	litres	70					100			Not Available			
Physical Data													
Length (4)	mm	1440	1440	2340	2340	2340	2340	2340	2340	2340	2340	2340	2340
Width	mm	920	920	920	920	920	1136	1136	1136	1646	1646	1646	1646
Height	mm	1200	1200	1320	1320	1320	1320	1320	1320	1320	1320	1320	1320
Weight (5)	Kg	280	280	368	375	380	580	590	600	840	880	890	1100

NOTE:

All ratings at nominal operating conditions of 35°C ambient, 12°C water return temperature, 7°C delivery temperature.

(1) Nominal compressor kW - Note CA10-CA66, CA90, CA100, CA115 use hermetic (CA115-semi hermetic) recip. compressors. CA40 & CA80 Scroll compressors

(2) Optional primary circulation pump. All units can be fitted with larger or dual pumps to suit application

(3) Total motor kilowatts, including Compressors, fans, pump and controls

(4) Overall length, not including optional tank. Allow and extra 230mm to overall length if tank fitted.

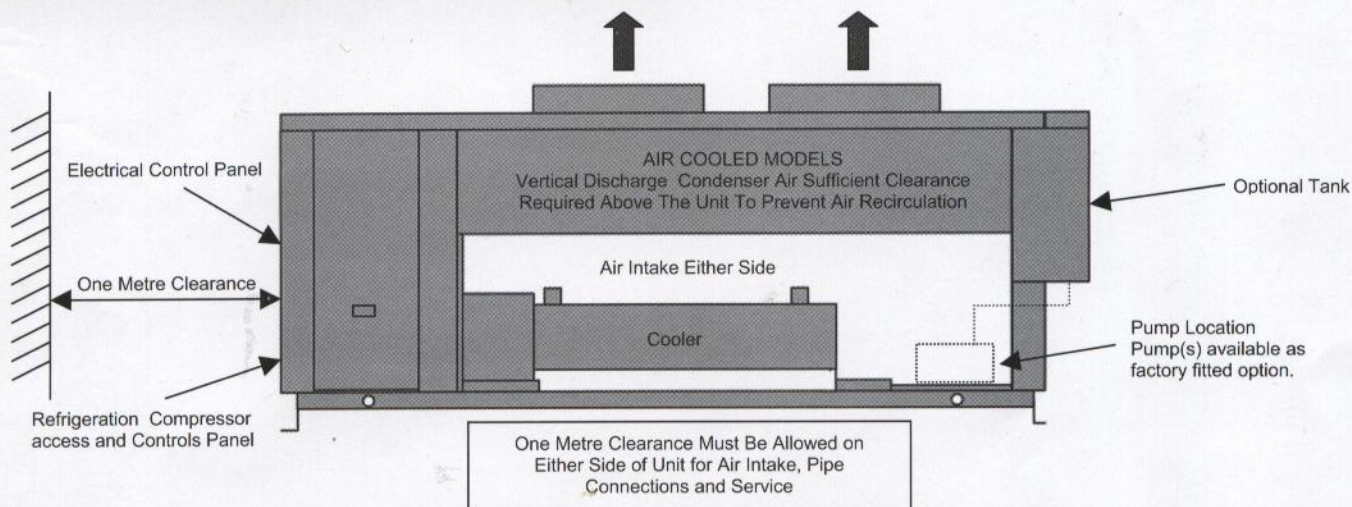
(5) Weight does not include pumps or tank.

All units come standard with R22 refrigerant. R407c and R404a are available on request.

Please note that Fluid Chillers Australia Pty Ltd reserve the right to change or modify specifications as required by continuing design and production variations that may take place. This information sheet should be used only as a guide to the application of the equipment.

Full details on specific equipment must be obtained at the time of supply. This brochure does not constitute an offer for sale of any product.

CA Chillers Layout and Location Detail



CA Chillers - Standard Features

- Separate Refrigeration circuits each compressor
- Galvabond Steel frame and panels
- Powder Coat Finish (Admiralty Grey Standard)
- Fully Weatherproof
- Unique Serviceable Shell and tube Evaporator
- Variable Speed Condenser Fans
- Evaporator Shell Hot dip Galvanised
- Controls Standard for Normal or Low Temperature
- Capacity Control, Hot Gas Bypass on Single Compressor units, Dual & Triple Compressors on Larger units.

MADE IN AUSTRALIA

Standard Factory Options

- Built in Tank (up to CA66 only)
- Factory Fitted Pump(s)
- Provision for Single or Dual Pumps
- Stainless Steel Shell on Evaporator
- Pressure and Temperature Gauges
- All Copper or Treated Condenser Coils
- Soft Start control
- Alternative Refrigerants R407c & R404a
- Bacnet - Modbus gateway system
- Heat Recovery Condensers
- Water Heating Circuit
- Water Cooled Condenser (CW unit)
- Marine Condenser (CW Unit)
- Condensing Unit (CU unit)

CW Models: Water Cooled Condensers
CR Models: Remote Condenser Units

SINGLE COMPRESSOR MODELS:

Model CW/CR	40	70	90	105	125	150	180	220	275	310	360
Capacity CW Units:	38	70	90	105	125	155	180	220	275	310	360
Kw Input:	11	18	23	27	34	41	52	58	68	80	90
Capacity CR Units:	33	62	81	94	112	138	160	190	230	275	325
Kw Input:	12	21	26	31	38	47	59	71	82	96	109
Compressor:	Hermetic	4 cyl Semi-H	6 cyl Semi-H	6 cyl Semi-H	6 cyl Semi-H	8 cyl Semi-H	8 cyl Semi-H	Screw	Screw	Screw	Screw
Capac steps:	2	2	3	3	3	4	4	4	Steps or	Variable	

COOLING SOLUTIONS

204 Tooheys Mill Rd. Nashua NSW 2479
Ph: 02 6629 1588 Fax: 02 6629 1599
Mobile: 0417 786 633 (+61)
Email: coolingsolutions@bigpond.com

DUAL COMPRESSOR- DUAL CIRCUIT MODELS:

Model:	80	120	140	200	250	300	350	440	550	620	720
Capacity CW Units:	76	120	140	210	250	310	360	440	550	620	720
Kw Input:	22	32	36	54	68	82	104	115	136	160	180
Capacity CR Units:	66	106	124	186	224	276	320	380	460	550	650
Kw Inputs:	24	36	42	62	76	94	118	141	164	192	218
Compressors:	2 off Hermetic	2 x 4 cyl Semi-H	2 x 4 cyl Semi-H	2 x 6 cyl Semi-H	2 x 6 cyl Semi-H	2 x 8 cyl Semi-H	2 x 8 cyl Semi-H	2 x Screw	2 x Screw	2 x Screw	2 x Screw
Capac steps:	2	4	4	4	4	4	4	4	Steps or	Variable	

Notes:

- Capacities shown above, at following conditions (Kw inputs compressors only):
- CW Units** - 12 deg to 7 deg C Chilled water / 29.5 deg to 35 deg C Cooling water.
- CR Units** - 12 deg to 7 deg C Chilled water / 50 deg C Condensing temperature.
- Units suitable for various water temperatures- refer to factory for complete data.

Capacity Adjustment approx for alternate conditions:

Degrees Celsius leaving chiller	+ 12 deg	+ 7 deg	0 deg	- 7 deg	- 10 deg
Capacity multiplier	1.20	1.0	0.77	0.57	0.50

- Glycol or Ethanol – water required at below 4 deg C.
- Refer to factory for final selection.
- CW: water cooled units supplied as complete packages, fully charged & ready to run.
- CR: remote condenser units have holding charge only, condensers quoted separately.
- Standard Refrigerant R22 (optional Refrigerants R407C, R404A available on request).
- Evaporators – direct expansion, removable tube bundle, shell & tube type.
- Condensers on water cooled models, shell & tube, mechanically cleanable.
- To calculate heat rejection at condenser – capacity plus Kw input.

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