



Air Cooled Exchangers With Aluminium Cooling Elements DYNACOOOL SERIES A 2000 CLASSIC

- Australian designed and manufactured product with reputation for quality, reliability and technical excellence.
- With over 30 years experience, constant development and testing has produced the Series A 2000 the most compact and lowest noise oil cooler in its performance range.
- The largest air cooled heat exchanger inventory in the southern hemisphere means that you can demand and receive the fastest delivery of new units and service parts exactly when you need them.



DYNACOOOL MODEL CODES

BASIC MODEL NUMBER = 31, 32, 33, 35 & 70

COOLING ELEMENT TYPE

- S** = Hi-Flow 90mm - Operating pressure 14 Bar (Ports on opposite side)
G = Hi-Flow 70mm - Operating pressure 14 Bar (Ports on same side)
L = Hi-Flow 95mm - Operating pressure 14 Bar (Ports on same side)
U = Hi-Flow 95mm - Operating pressure 14 Bar (Ports on opposite side)
V = Hi-Flow 95mm - Operating pressure 20 Bar (Ports on same side)
Y = Hi-Flow 65mm - Operating pressure 14 Bar (Ports on opposite side)

PORT ORIENTATION

- H** = Horizontal
V = Vertical

FAN DIAMETER (mm)

- 5** = Ø500
6 = Ø630
8 = Ø800
9 = Ø892
10 = Ø1000

BASIC DRIVE TYPE

- AC** = 3 Phase electric motor
AD = 1 Phase electric motor
HF = Hydraulic orbit motor with end ports
HQ = Hydraulic orbit motor with side ports (optional)
HV = Hydraulic vane motor
NM = No motor (electric motor mounting provided)
GA = Air motor
DP = Motor and DC30 Pump
HP = Motor and Haight Pump
HX = No motor (hydraulic motor mounting provided. Customer to specify motor details)
DC = DC Motor

MOTOR/FAN SPEED

- 2** = 2 Pole Nom. 2800rpm at 50 Hz
4 = 4 Pole Nom. 1450rpm at 50 Hz
6 = 6 Pole Nom. 950rpm at 50 Hz
8 = 8 Pole Nom. 750rpm at 50 Hz

SPECIAL DETAILS OR FINISH

- 00 or none** = 415V 50Hz
01 = 240V 50Hz
V = 3.5 Bar bypass valve
F = Extra corrosion resistant finish

D C 32 Y H 8 AC 6 00 #

Not all combinations are available or possible



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AC ELECTRIC HEAT EXCHANGERS

TECHNICAL SPECIFICATIONS - AC ELECTRIC MODELS

Electric Motor Specifications

- Dynacool A 2000 Series. 50 Hz 3 phase asynchronous to IEC 34-1, B3 mount IP55, Insulation- Class F. Temperature rise- Class B
- Versacool. 50Hz asynchronous to IEC 34-1, B3 mount IP55, Insulation- Class F. Temperature rise- Class B
- 60 Hz available with reduction of fan blade angles.

General Construction

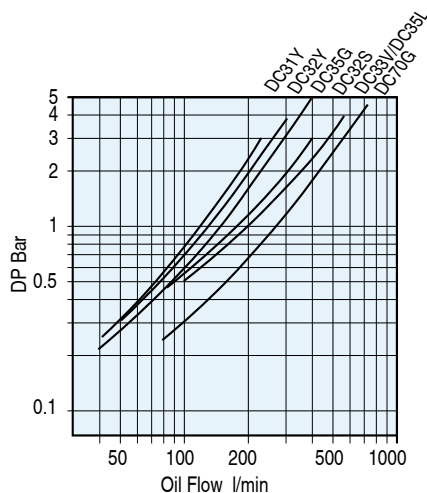
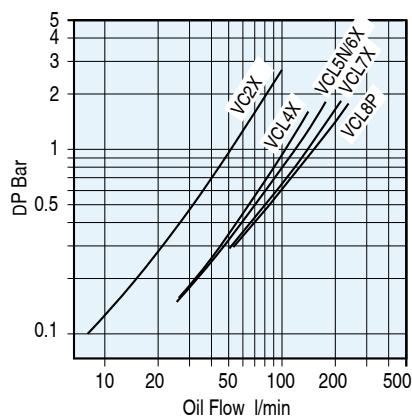
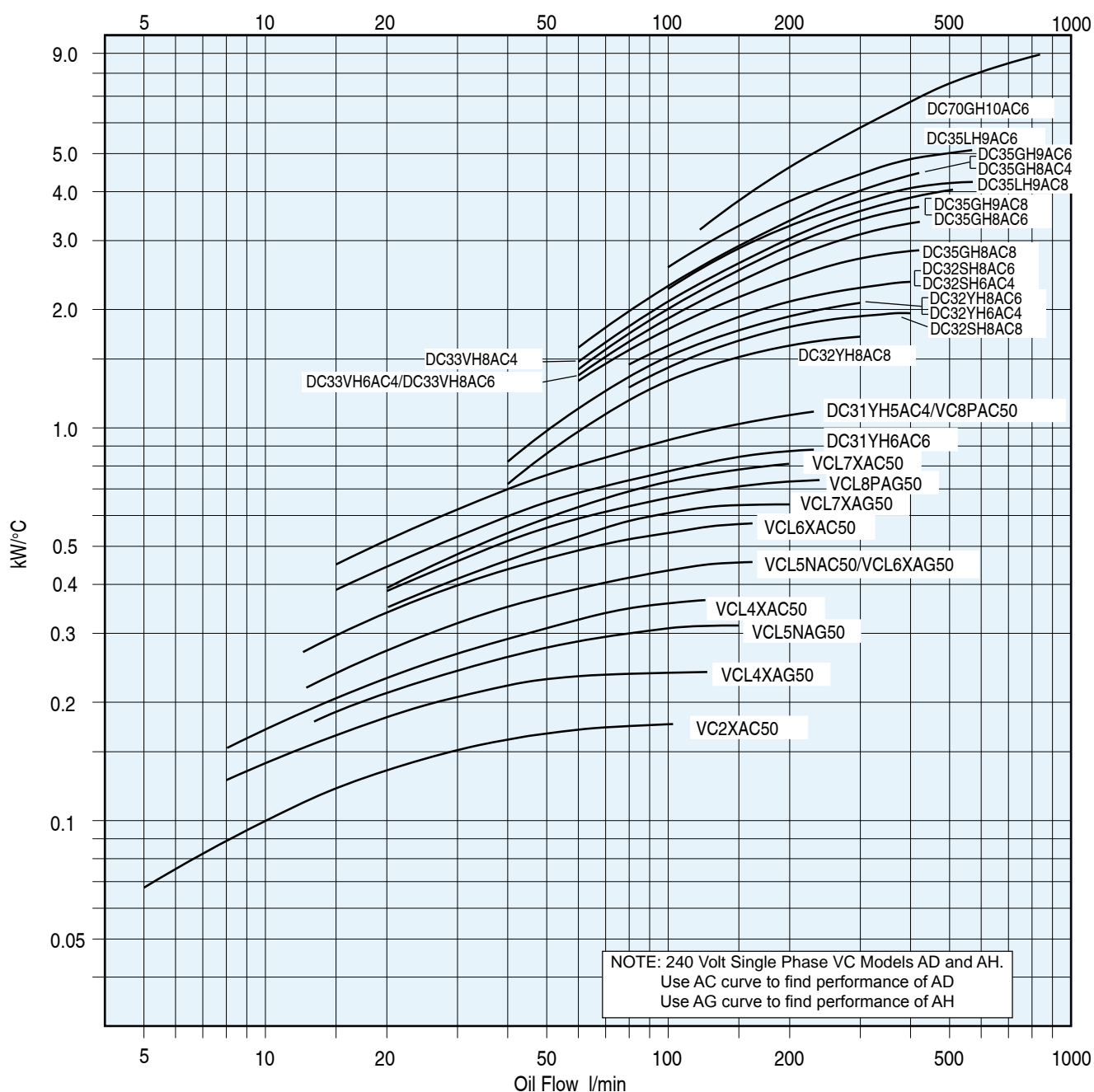
- Cooling Elements. Aluminium furnace brazed. Ref. to pages 4 and 5 for element types.
- Casing and Structure. Steel (zinc seal) polyester powder coated. Stainless steel to special order.
- Steel core guards on Dynacool models.
- Coated steel fan guards on all models.
- Fans. Polypropylene GF or Polyamide GF. Antistatic fans available on request.
- Fastenings. Zinc plated. Stainless steel to special order.

MODEL/ Part Number	Noise level * dB(A) at 1m	Fan Ø (mm)	Volts	Phase	kW	Size	Poles	Weight (kg)
VC2XAC50	82	243	415	3	0.25	63	2	12
VC2XAD50	82	243	240	1	0.24	63	2	12
VC2XAG50	65	243	415	3	0.18	63	4	12
VC2XAH50	65	243	240	1	0.15	63	4	12
VCL4XAC50	84	305	415	3	0.37	71	2	15.5
VCL4XAD50	84	305	240	1	0.37	71	2	15.5
VCL4XAG50	68	305	415	3	0.25	71	4	15.5
VCL4XAH50	68	305	240	1	0.187	71	4	15.5
VCL5NAC50	87	354	415	3	0.75	80	2	20
VCL5NAD50	87	354	240	1	0.75	80	2	20
VCL5NAG50	71	354	415	3	0.37	71	4	20
VCL5NAH50	71	354	240	1	0.37	71	4	20
VCL6XAC50	78	450	415	3	0.55	80	4	25
VCL6XAD50	78	450	240	1	0.55	80	4	25
VCL6XAG50	68	450	415	3	0.55	80	6	25
VCL7XAC50	78	450	415	3	0.55	80	4	28
VCL7XAD50	78	450	240	1	0.55	80	4	28
VCL7XAG50	68	450	415	3	0.55	80	6	28
VCL8PAC50	90	354	415	3	0.75	80	2	58
VCL8PAD50	90	354	240	1	0.75	80	2	58
VCL8PAG50	74	354	415	3	0.37	71	4	58
VCL8PAH50	74	354	240	1	0.37	71	4	58
DC31YH5AC400	84	500	415	3	0.75	80	4	56
DC31YH6AC600	78	630	415	3	0.55	80	6	56
DC32YH6AC400	89	630	415	3	1.5	90L	4	90
DC32YH8AC600	84	800	415	3	2.2	112	6	91
DC32YH8AC800	79	800	415	3	1.1	100	8	91
DC32SH6AC400	89	630	415	3	1.5	90L	4	90
DC32SH8AC600	88	800	415	3	2.2	112	6	99
DC32SH8AC800	79	800	415	3	1.1	100	8	99
DC33VH6AC400	89	630	415	3	1.5	90L	4	180
DC33VH8AC400	96	800	415	3	3.0	100	4	180
DC33VH8AC600	87	800	415	3	2.2	112	6	180
DC35GH8AC400	96	800	415	3	3.0	100	4	195
DC35GH8AC600	87	800	415	3	2.2	112	6	195
DC35GH8AC800	79	800	415	3	1.1	100	8	195
DC35GH9AC600	92	892	415	3	2.2	112	6	195
DC35GH9AC800	85	892	415	3	1.1	100	8	195
DC35LH9AC600	92	892	415	3	2.2	112	6	210
DC35LH9AC800	85	892	415	3	1.1	100	8	210
DC70GH10AC600	85	1000	415	3	5.5	132M	6	380



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PERFORMANCE - STANDARD & HIFLOW AC ELECTRIC MODELS



OIL COOLER SIZING

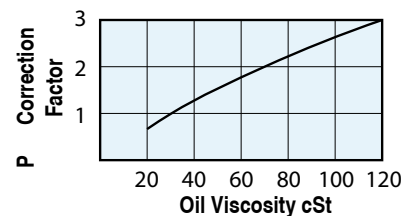
Step 1. Calculate $ETD = T_{oil} - T_{air}$
 T_{oil} = Temp °C of oil entering the cooler (usually the same as max. allowable oil temp.) T_{air} = Expected Ambient Air Temp °C.

Step 2. Calculate $kW/°C ETD = \frac{kW}{ETD}$ kW = Heat Load.

Step 3. Enter Cooler Performance Tables and select a cooler which meets or exceeds the required performance at the required oil flow rate.

Step 4. Check pressure drop of the oil cooler selected in step 3. If the average oil viscosity is not 30 cSt apply a correction for the expected viscosity.

Computer model selection program available.

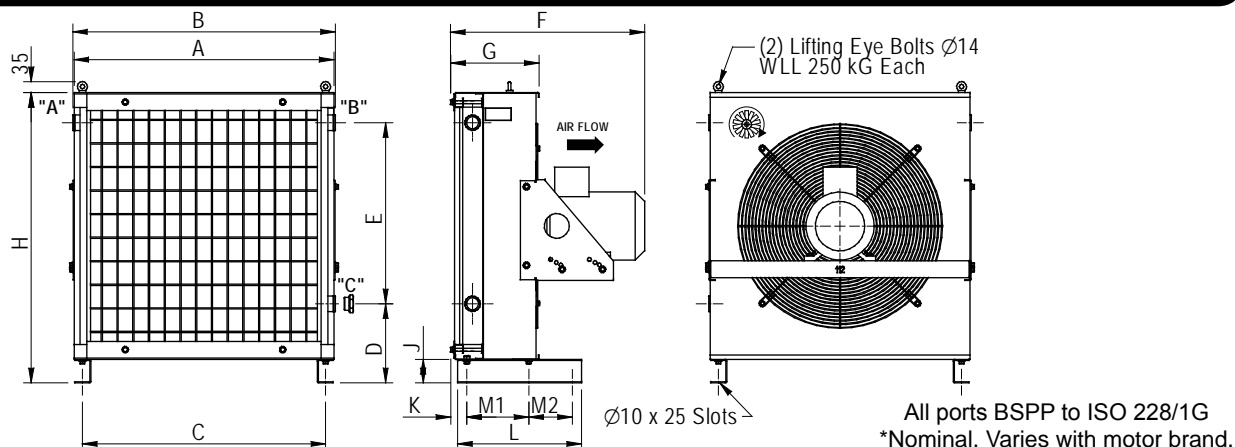




Air Cooled Exchangers With Aluminium Cooling Elements

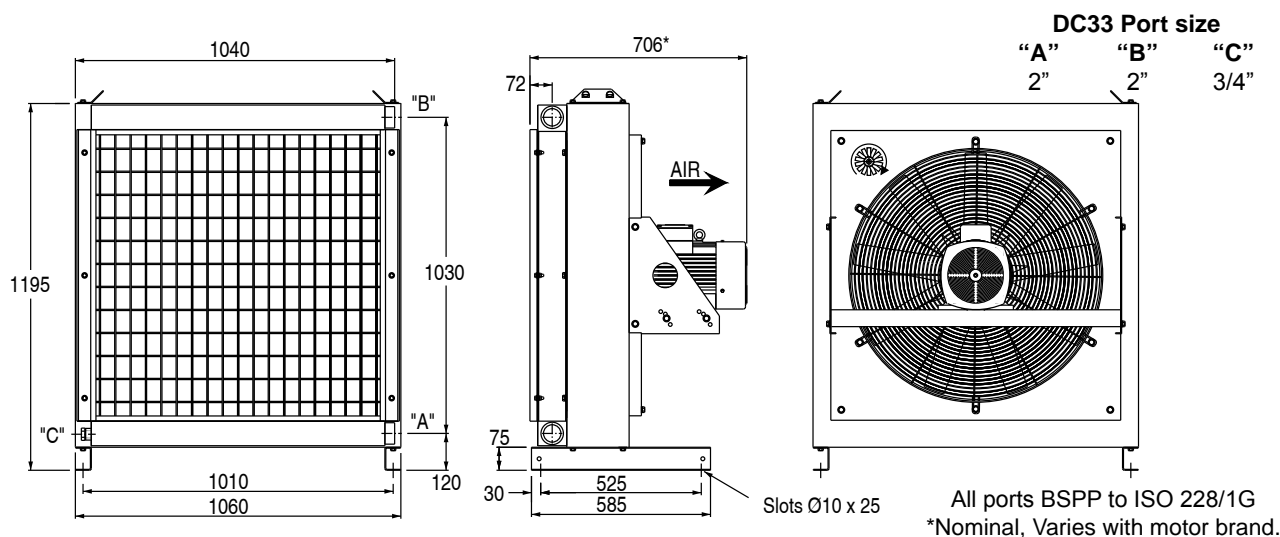
DIMENSIONS - DYNACOOOL SERIES A 2000 CLASSIC AC ELECTRIC

MODEL DC31 & DC32

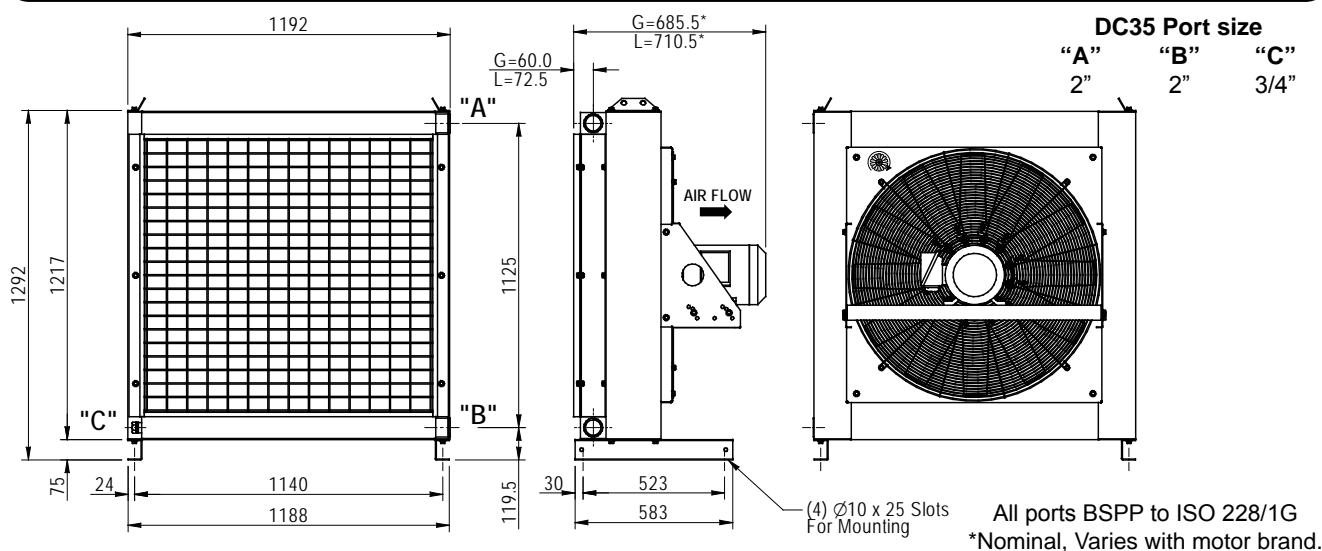


Model	A	B	C	D	E	F*	G	H	J	K	L	M1	M2	"A"	"B"	"C"
31Y	674	694	618	255	406	515*	277	762	75	53	400	200	140	1 1/4"	1 1/4"	1 1/4"
32S	840	847	784	177	663	590*	302	940	75	78	400	200	140	2"	2"	3/4"
32Y	840	847	784	255	585	565*	277	940	75	53	400	200	140	1 1/4"	1 1/4"	1 1/4"

MODEL DC33



MODEL DC35 L & G



All dimensions in mm unless noted otherwise 0-50 are ± 1. 50-1500 are ± 3.