



## air cooled exchangers With aluminium cooling elements HYDRAULIC DRIVE COOLERS

- Hydraulic motor fan drives are available on most Versacool and Dynacool heat exchangers
- Compact face mount system
- Hydraulic motor options include either a 8cc or a 12cc mini orbit motor.
- HX coolers available for fitting of customer supplied hydraulic motors. Consult sales office.
- Overhung load adaptors can be supplied and fitted for plug-in on HX hydraulic motor types.



MINI ORBIT MOTOR



Mounting feet and thermostat options page 54-56.

### TECHNICAL SPECIFICATIONS - COOLERS WITH HYDRAULIC MOTORS

Model	Motor type	Motor size cc/rev	Req'd Motor speed rpm	Oil flow req'd l/min	Motor power kW
Vc14xHF12/19	Orbit #	8.2/12.9	1440	12/19	0.25
Vc15nHF12/19	Orbit #	8.2/12.9	1440	12/19	0.37
Vc16xHF12/19	Orbit #	8.2/12.9	1440	12/19	0.55
Vc17xHF12/19	Orbit #	8.2/12.9	1440	12/19	0.55
Vc18xHF412/19	2 x Orbit #	8.2/12.9	1440	12/19	2 x 0.37
Dc31YH6HF612/20	Orbit #	12.9/20	920	12/20	0.55
Dc31YH5HF412/19	Orbit #	8.2/12.9	1440	12/19	0.75
Dc32YH6HF412/19	Orbit #	8.2/12.9	1440	12/19	1.5
Dc32YH8Hx6/8*	Cust. supply	-	920/710	-	2.2/1.1
Dc32sH8Hx6/8*	Cust. supply	-	920/710	-	2.2/1.1
Dc33VH6HF412/19	Orbit #	8.2/12.9	1440	12/19	1.5
Dc33VH8Hx400*	Cust. supply	-	1440	-	3.0
Dc33VH8Hx600*	Cust. supply	-	920	-	2.2
Dc35GH8Hx6/8*	Cust. supply	-	920/710	-	2.2/1.1
Dc35GH9Hx600*	Cust. supply	-	920	-	2.2
Dc35IH9Hx600*	Cust. supply	-	920	-	2.2

\*Customer to specify motor details when ordering.

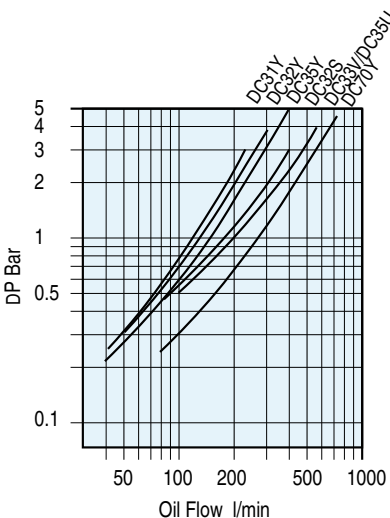
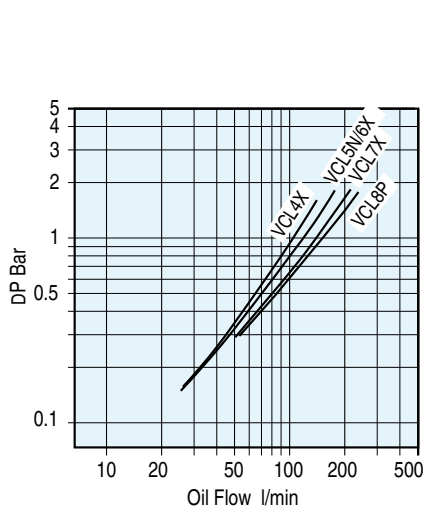
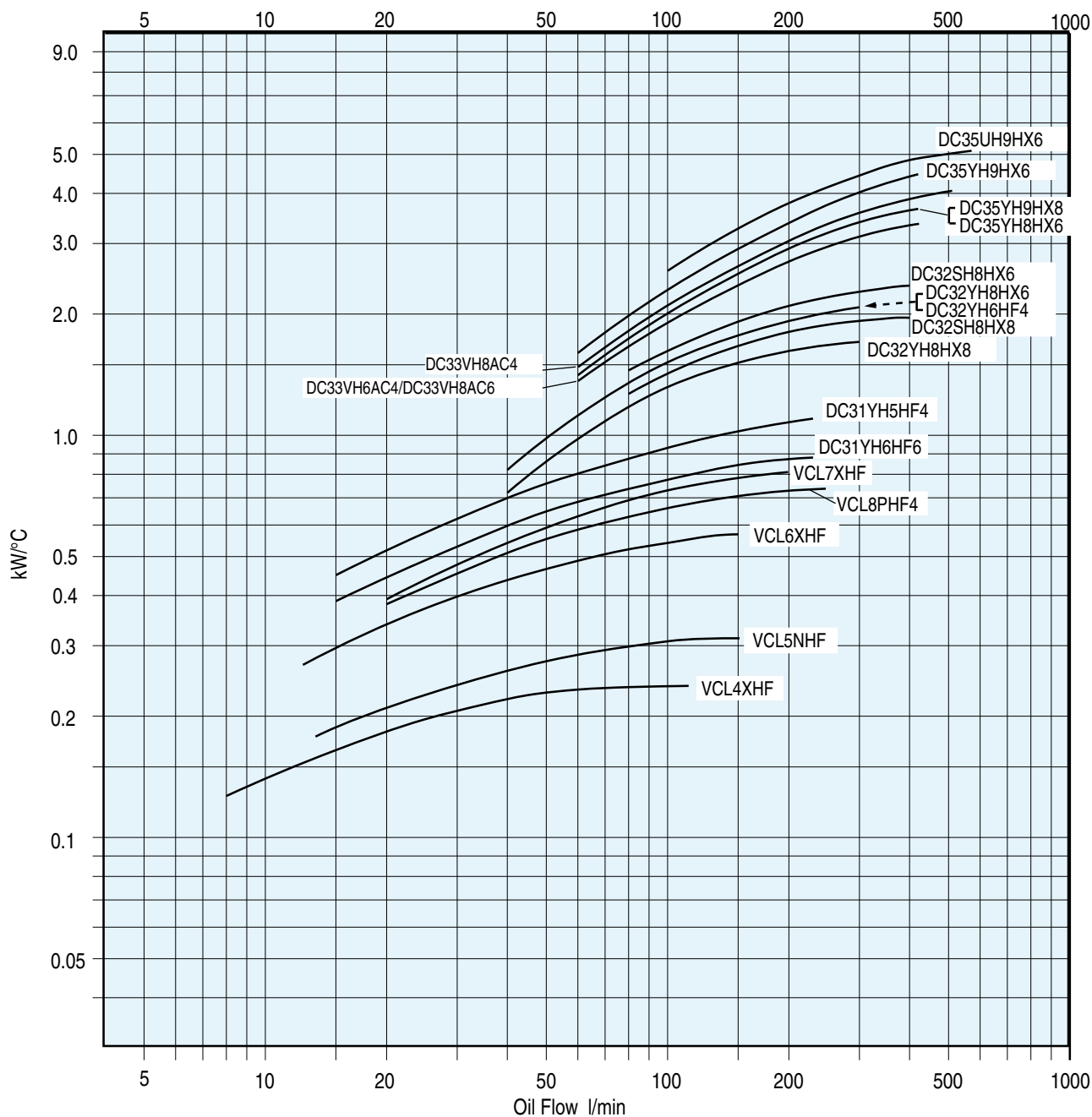
Performance curves and noise levels are based on required motor speed.

# For Heat Exchanger models "HF" & "HQ" fitted with orbit motors. Ports on orbit motors are 3/8" BSPP.

"HF" models are fitted with orbit motors with end ports,

"HQ" models are fitted with orbit motors with side ports.(Optional)

In above table, replace code "HF" with code "HQ" when selecting side port option.



**oil cooler sIZiNG**

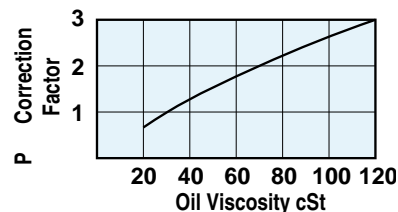
**step 1.** Calculate  $ETD = T_{Oil} - T_{Air}$   
 $T_{Oil}$  = Temp °C of oil entering the cooler (usually the same as max. allowable oil temp.)  
 $T_{Air}$  = Expected Ambient Air Temp °C.

**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.

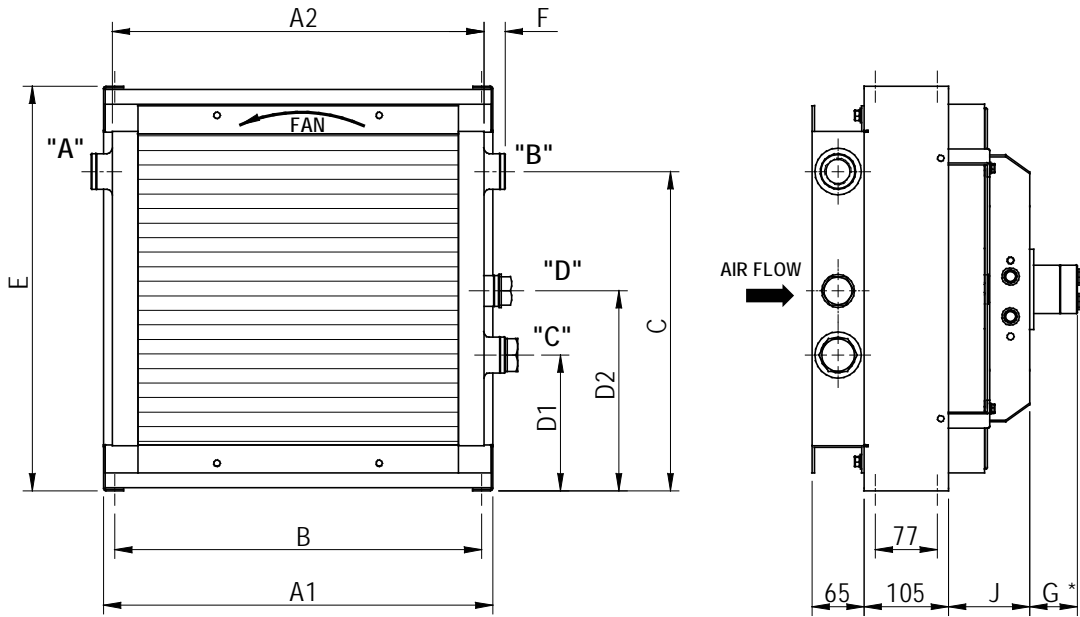




## air cooled exchangers With aluminium cooling elements

### DIMENSIONS - VERSACOOl HYDRAULIC MODELS

#### moDel Vc14xHF, Vc15nHF, Vc61xHF & Vc17xHF



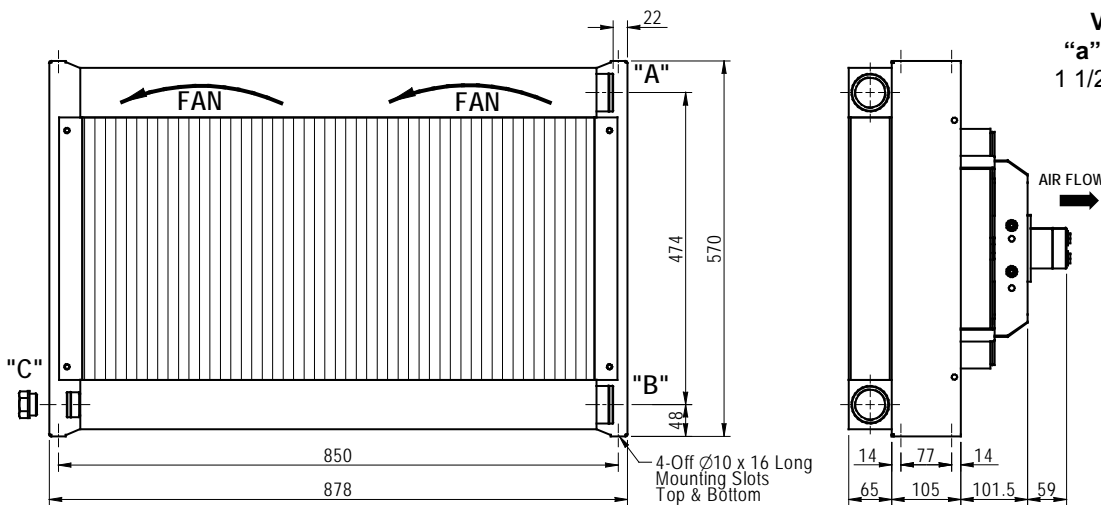
\*Nominal, Varies with motor type.  
All ports BSPP to ISO 228/1G  
See Accessory information for foot bracket options.

model	a1	a2	B	c	D1	D2	e	F1	G*	H	J	liq Vol l	"a"	"B"	"c"	"D"
Vc14xHF	340	-	312	259	99	179	360	22	71	65	90	1.2	1"	1"	1"	3/4"#
Vc15nHF	440	400	412	335	107	187	440	22	59	65	102	1.8	1"	1"	1"	3/4"
Vc16xHF	485	468	457	398	170	250	505	22	59	65	102	2.2	1"	1"	1"	3/4"
Vc17xHF	567	545	539	477	172	-	584	12	59	65	102	2.5	1 1/4"	1 1/4"	3/4"	-

\*Nominal, Varies with motor brand.

All ports BSPP to ISO 228/1G

#### moDel Vc18xHF4

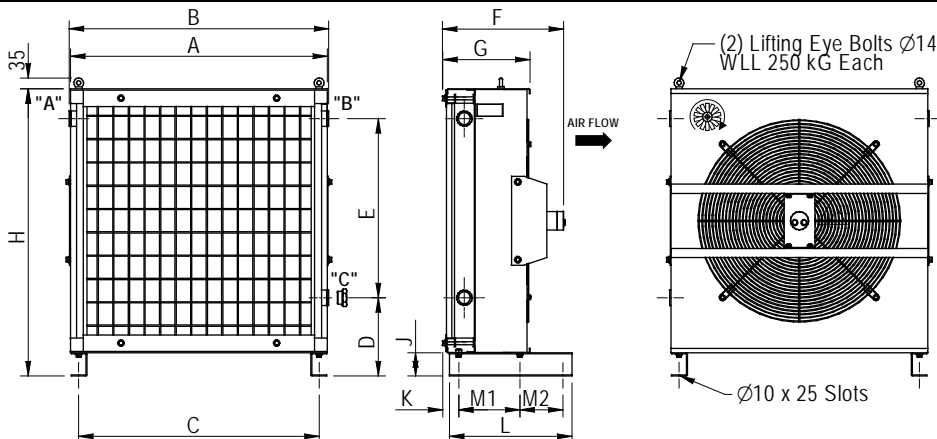


**Vc8Pa Port size**  
"a" 1 1/2" "B" 1 1/2" "c" 3/4"

All ports BSPP to ISO 228/1G

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

**moDel Dc31 & Dc32**

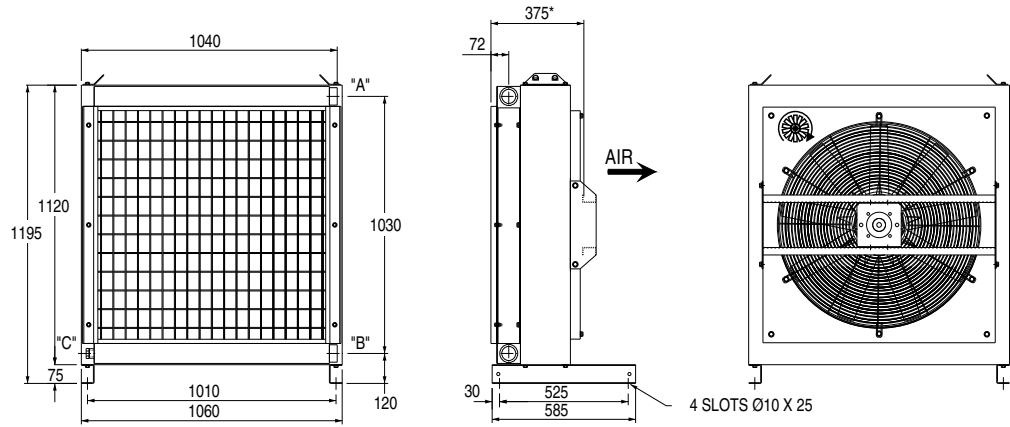


model	a	B	c	D	e	F*	G	H	J	K	l	m1	m2	Port a	Port B	Port c
31Y	674	694	618	255	406	387*	277	762	75	53	400	200	140	1 1/4"	1 1/4"	1 1/4"
32s	840	847	784	177	663	412*	302	940	75	78	400	200	140	2"	2"	3/4"
32Y	840	847	784	255	585	387*	277	940	75	53	400	200	140	1 1/4"	1 1/4"	1 1/4"

\*Nominal Varies with motor type. Ports BSPP to ISO 228/1G

All dimensions in mm unless noted otherwise 0-50 are  $\pm 1$ . 50-1500 are  $\pm 3$ .

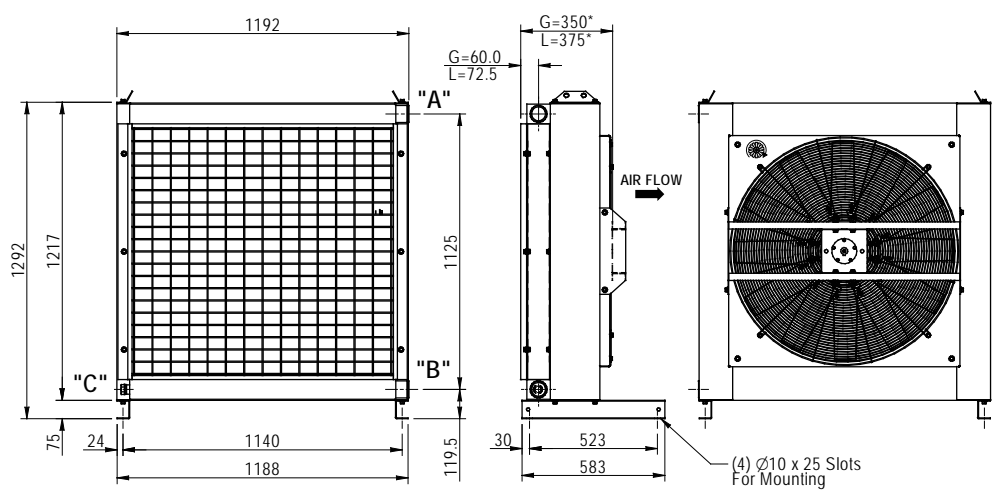
**moDel Dc33**



All ports  
BSPP to ISO 228/1G  
\*Dimension to motor mounting face.

**moDel Dc35 I & G**

No Motor model shown. Motor selected to suit application



All ports  
BSPP to ISO 228/1G  
\*Dimension to motor mounting face.

All dimensions in mm unless noted otherwise 0-50 are  $\pm 1$ . 50-1500 are  $\pm 3$ .