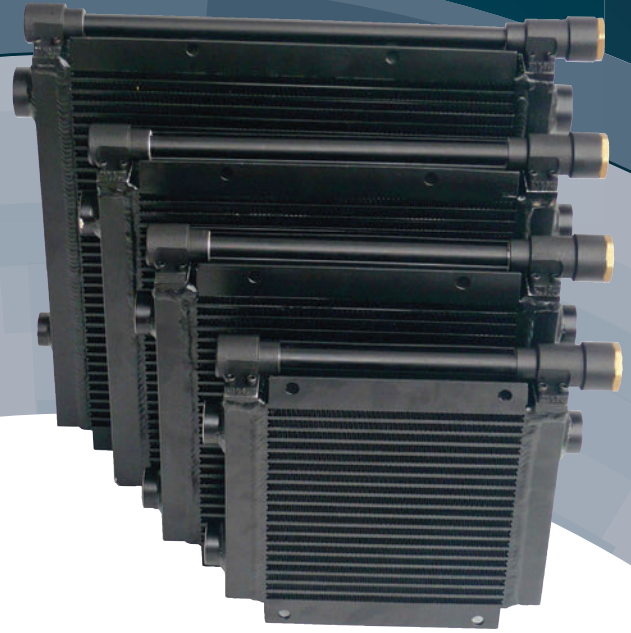


# Air Cooled Heat Exchangers With Oil Bypass



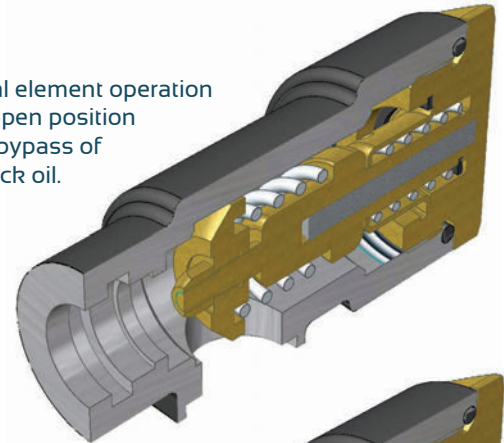
## Thermal and pressure bypass system

- The thermal bypass diverts cold oil around the core reducing system pressure and allows the oil to reach optimum temperature sooner. Once warm, the thermal bypass closes and the pressure bypass provides relief if the pressure setting is reached.
- Bolt on design with new style heat exchanger core
- No loss of core area like some competitors designs
- Can be placed on either side to suit operational requirements
- Can be fitted in the field with a suitably equipped core.
- Fits VC4-7 range with all parts standard across the range (cross tube length varies with model)
- Economical, corrosion resistant materials, primarily aluminium alloys.
- Engineered 'O' ring seals at all joints
- Core and bypass assembly can be retrofitted to older style VC4 -7 heat exchanger case assemblies

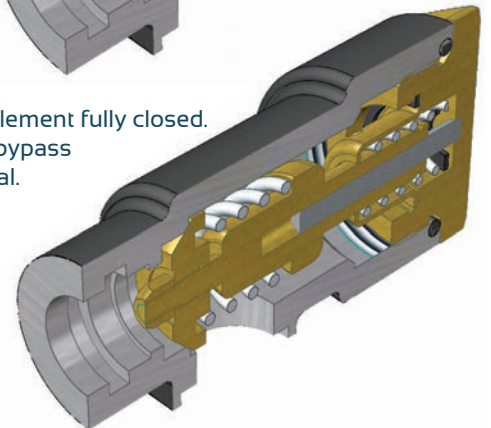
## Valve Assembly

- Thermal Bypass shift 50°C, full moved at 60°C
- Pressure bypass 4 BAR
- Wax Element style thermo-valve
- Optionally, can be made into pressure or temperature only valve

Thermal element operation at full open position allows bypass of cold thick oil.



Thermal element fully closed. Pressure bypass operational.



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## AC Voltage Motor Models

Model/ Part No.	Fan Ø (mm)	Volts	Phase	kW	Size	Poles	Weight (kg)	Noise level * dB(A) at 1m
VCL4XAC50B504	305	415	3	0.37	71	2	20	84
VCL4XAD50B504	305	240	1	0.37	71	2	20	84
VCL4XAG50B504	305	415	3	0.25	71	4	20	68
VCL4XAH50B504	305	240	1	0.187	71	4	20	68
VCL5NAC50B504	354	415	3	0.75	80	2	30	87
VCL5NAD50B504	354	240	1	0.75	80	2	30	87
VCL5NAG50B504	354	415	3	0.37	71	4	26	71
VCL5NAH50B504	354	240	1	0.37	71	4	26	71
VCL6XAC50B504	450	415	3	0.55	80	4	37	78
VCL6XAD50B504	450	240	1	0.55	80	4	37	78
VCL6XAG50B504	450	415	3	0.55	80	6	39	68
VCL7XAC50B504	450	415	3	0.55	80	4	39	78
VCL7XAD50B504	450	240	1	0.55	80	4	39	78
VCL7XAG50B504	450	415	3	0.55	80	6	41	68

## DC Voltage Motor Models

Model/ Part No.	Fan Ø (mm)	Volts	Amps	Weight kg	Noise level * dB(A) at 1m
VC4XDA10B504	305	12	14.5	11.5	80
VC4XDA20B504	305	24	9.3	11.5	80
VC5NDA10B504	305	12	14.5	14	80
VC5NDA20B504	305	24	9.3	14	80
VC6XDA10B504	305	12	14.5	15.8	80
VC6XDA20B504	305	24	9.3	15.8	80
VC7XDA10B504	2 x 305	12	29	25	83
VC7XDA20B504	2 x 305	24	18.6	25	83

## Hydraulic Motor Models

Model/Part No.	Motor type	Motor size cc/rev	Req'd Motor speed rpm	Oil flow req'd l/min	Motor power kW	Weight (kg)	Noise Level* (dBA) at 1m
VCL4XHF12B504	Orbit	8.2	1440	12	0.25	16	68
VCL4XHF19B504	Orbit	12.9	1440	19	0.25	16	68
VCL5NHF12B504	Orbit	8.2	1440	12	0.37	20	71
VCL5NHF19B504	Orbit	12.9	1440	19	0.37	20	71
VCL6XHF12B504	Orbit	8.2	1440	12	0.55	27	78
VCL6XHF19B504	Orbit	12.9	1440	19	0.55	27	78
VCL7XHF12B504	Orbit	8.2	1440	12	0.55	29	78
VCL7XHF19B504	Orbit	12.9	1440	19	0.55	29	78

\* Noise levels listed are raw A weighted pressure representing worst case.

## Part Numbers for retrofitting older style air heat exchangers (both parts required)

Cooler Model	VC4X & VCL4X	VC5N & VCL5N	VC6X & VCL6X	VC7X & VCL7X
New Core Part No.	18/07804	18/07805	18/07806	18/07807
Bypass Kit Part No.	B04504	B05504	B06504	B07504

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