TECHNICAL DATA SHEET ALPHA-C-5,W,E&O

COOLING DUTY

• Chilled emulsion temperature 'W+E' range (maximum oil 5%)	**Water + Emulsion**	°C	10	15	20
		kW	3.33	4.4	5.33
• Chilled oil temperature 'O' range (maximum viscosity ISO-VG32)	**Oil**	°C	15	20	25
		kW	5.2	6.2	6.9
• Ambient temperature range for the standard design		°C	10 to 42		
• Chilled water temperature available in the standard design		°C	10 to 40		

Duties shown are for ambients up to 32°C

REFRIGERATION SYSTEM

• Compressor	Type		Hermetic
	Nominal power	kW	2.6
	Full load current	amps	4.7
	Refrigerant type		R134A
• Condenser unit	Air cooled condenser	no. off	One
	Material		All aluminium
	Air flow	m3/hr	2900 / 3300
	Motor power	kW	0.48 / 0.48
	Full load current	amps	0.8 / 0.8
• Evaporator	Range 'W + E'	design	Brazed plate
		material	Stainless steel
	Range 'O'	design	Shell and tube cleanable
		material	Copper/stainless steel

• Refrigeration controls: compressor over-temperature protection, refrigerant drier, expansion valve, high/low pressure switch

FLUID CIRCULATING PUMP

		Water + Emulsion	**Oil**
• Material		Stainless steel	Stainless steel
• Type		Horizontal multistage centrifugal	Horizontal multistage centrifugal
• Flow	m3/hr	3.5	3.5
• Pressure	bar	1	1
• Motor power	kW	0.46	0.85
• Full load current	amps	1-2	2-22
• Connections	BSPF	1¼	1½
	BSPF	1¼	1½

ELECTRICAL SYSTEM

• Mains supply for the standard design	Volt phase cycle	415-3-50	415-3-50
• Control	Voltage	24VAC	24VAC
• Total nominal power	kW	3.8	4.2
• Maximum load (per phase)	amp	7	8
• Safety fuse	amp	16	16

• Electrical controls: direct on line. Incorporates safety overload.
• Protection rating IP54
• Remote control via volt free signal
• Collective fault/remote signal
• Automatic fan control

NOISE LEVEL

@ 1m free field — dB'A' — 73

HEAT RECOVERY

From air or water cooled condenser kW — 5 — 7

WEIGHT

Water + Emulsion cooler Dry kg 119 **Oil cooler** Dry kg 117

DIMENSIONS (mm)

• Stainless steel frame
• Painted panels RAL 5019

Width 720 Depth 835 Height 930

OPTIONS

Pressure gauge
Low ambient kit
Speed controlled compressor or fan
Close temperature control ±0.5°C or ±0.1°C
Control temperature parallel with ambient
High ambient conditions
Remote temperature control
Flow switch
High ambient conditions (up to 50°C)
Water cooled condenser
Special electrical circuits
24V DC control circuit
External on/off on unit
Air filter blocked
Refrigerant gauges
Power supply various
Cable marking
Harting connectors
Commissioning