TECHNICAL DATA SHEET — GAMMA 80

COOLING DUTY

• Chilled emulsion temperature 'E' range (maximum oil 5%)	Emulsion	°C	10	15	20
		kW	64.3	75.5	84.5
• Chilled oil temperature 'O' range (maximum viscosity ISO-VG32)	Oil	°C	15	20	25
		kW	64.3	75.5	84.5
• Ambient temperature range for the standard design		°C	10 to 42		
• Chilled fluid temperature available in the standard design		°C	10 to 20		

Duties shown are for ambients up to 32°C

REFRIGERATION SYSTEM

• Compressor	Type		Hermetic scroll
	Nominal power	kW	26.7
	Full load current	amps	43.6
	Refrigerant type		R410A
• Condenser unit	Air cooled condenser	No. off	One
	Material		All aluminium
	Air flow	m3/hr	15500
	Motor power	kW	1.97
	Full load current	amps	3.4
- or	Water cooled condenser		
	Water flow	litres/hour	7600
	Pressure drop	bar	3.1
• Agitator	Nominal power	watts	40
	Full load current	amps	0.18
• Evaporator		Material	Stainless steel

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

ELECTRICAL SYSTEM

• Mains supply for the standard design	Volt phase cycle	400 / 3 / 50	
• Control	Voltage	24VAC	
• Total nominal power	kW	29	
• Maximum load (per phase)	amp	Emulsion 47.5	Oil 47.7
• Safety fuse	amp	50	

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

NOISE LEVEL

@ 1m free field — dB'A' — 77.5

HEAT RECOVERY

From air or water cooled condenser — kW — 89

WEIGHT

Emulsion cooler	Dry kg	350
Oil cooler	Dry kg	460

DIMENSIONS (mm)

Width	Emulsion 1085	Oil 1605
Depth	1085	
Overall height	1940	
Immersed coil depth - Emulsion	360	
Immersed coil depth - Oil	520	

- Stainless steel frame
- Painted panels RAL 5019

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
Flow switch
High ambient conditions (up to 50°C)
Water cooled condenser
Special electrical circuits
Increased fan power for ducting
24V DC control circuit
Power supply various
Cable marking
Harting connectors
Commissioning