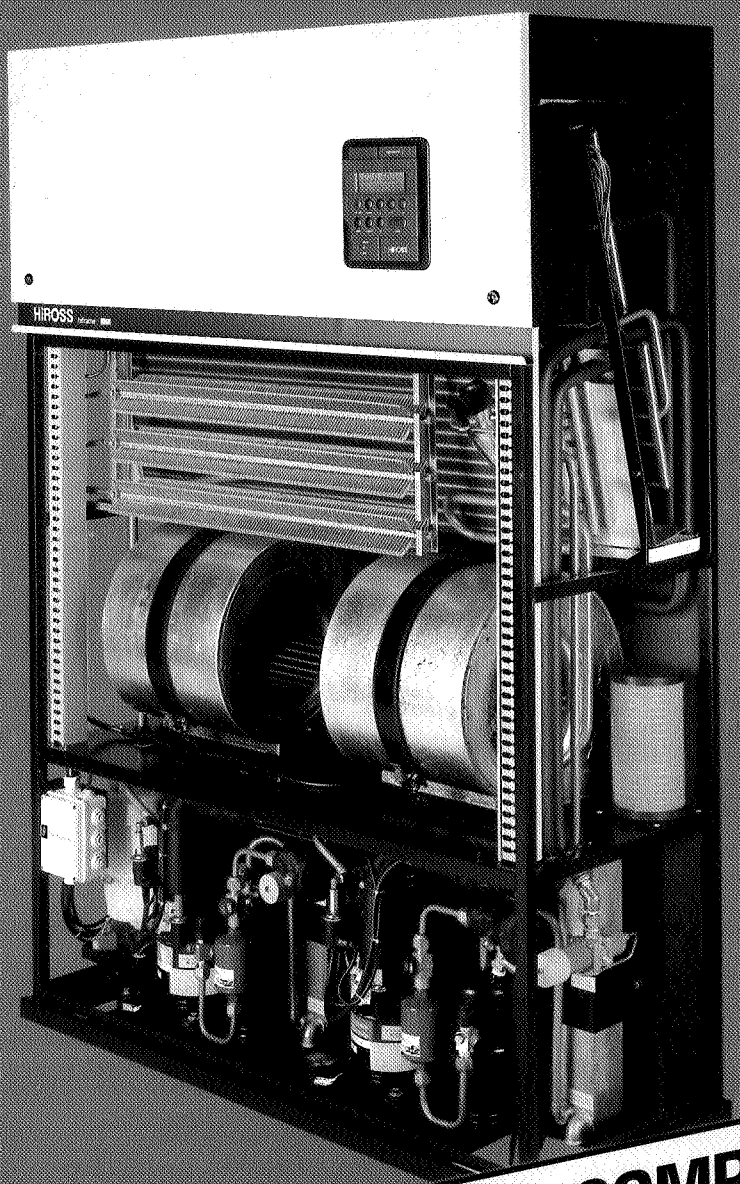
hiframe 2S

microprocessor controlled, twin circuit
air conditioning system
for medium computer centres

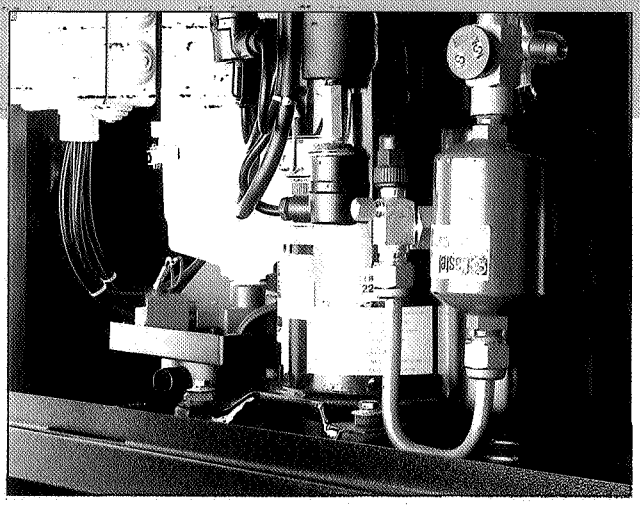
HiROSS leader in environment control of computer rooms
electronic telephone exchanges and digital equipment



SCROLL COMPRESSORS EQUIPPED

hiframe 2S

the advantage of a twin circuit unit with an extra small footprint



Superior advantages

The Hiframe series now features a new down flow unit with a twin circuit and scroll compressor. The unit is available in air and water-cooled versions. This innovative design offers a number of important advantages including maximum reliability, high efficiency, modular capacity and extra-quiet operation.

Efficient cooling, quiet operation

The **hiframe 2S** contains two scroll compressors, providing smooth and nearly continuous gas compression. This permits extremely quiet operation. As a matter of fact, this latest generation of scroll compressor even eliminates the pulsating sound experienced with reciprocating compressors.
The scroll compressor is based on the interaction of an orbiting spiral and stationary spiral. During compression, one scroll remains stationary, while the other is allowed to orbit around the first, thereby creating a pocket which reduces volume and increases gas pressure. This eliminates the energy losses associated with conventional compressors containing an intermediate element (the piston) alternately in contact with gas inlet and outlet.

Energy savings

Because of this innovative scroll compressor application, as well as the care taken in the design of its cooling and aerodynamic circuit, the **hiframe 2S** generates energy savings up to 20% compared to traditional units.

Advanced microprocessor control

The **hiframe 2S** is supplied with the hiromatic microprocessor, available with either a custom standard display, or an illuminated graphic display.

Accessories

- Air condensers and rad coolers

Installed on-board upon request:

- Electric reheat
- Hot water reheat
- Hot gas reheat
- Humidification and dehumidification system
- Water regulating valve (water cooled condensed version U2SW)

Special options

- Individually belt driven fans (model VFAN08 and VFAN15)
- 4-pole individually direct driven fans
- Special water regulating valves for large water flows (U2SW)
- Not-combustible thermo-acoustic lining

Note: for a correct selection of the accessories, please read the Engineering Data Manual.

Cooling capacity data			U2SA (A)	U2SW (B)	U2SW (C)
Return air conditions					
	Total capacity	kW	20,1	20,9	19,3
	Sensible capacity	kW	20,1	20,3	18,8
22°C/50%RH	Mixture flow rate	l/s	-	0;40	0,8
	Total pressure drop	kPa	-	4	18
	Compressors absorbed power	kW	5,4	4,9	7,2
	Total capacity	kW	21,3	22,3	20,3
	Sensible capacity	kW	20,6	21,0	19,4
24°C/50%RH	Mixture flow rate	l/s	-	0,42	0;9
	Total pressure drop	kPa	-	4	22
	Compressors absorbed power	kW	5,5	4,9	7,4
	Total capacity	kW	22,2	23,2	21,4
	Sensible capacity	kW	21,1	21,4	19,8
26°C/50%RH	Mixture flow rate	l/s	-	0,44	1,0
	Total pressure drop	kPa	-	4	26
	Compressors absorbed power	kW	5,5	4,9	7,5
Air flow rate		m³/s	1,63	1,63	1,63
Discharge air pressure		Pa	20	20	20
Dimensions					
Height		mm	1900	1900	1900
Length		mm	1300	1300	1300
Width		mm	550	550	550
Weight (gross)		kg	338	350	350
Noise (Spl at 2m free field condition)		dB(A)	50	50	50

(A) Air cooled condensed: external ambient temperature 35°C; matched condenser 2xACN103 - (B) Water cooled condensed in open circuit: condensing water on temperature 30°C - (C) Water/glycol cooled condensed in closed circuit: external ambient temperature 35°C; glycol percentage 30%; matched rad-ccolers 2xARN118

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