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## TECHNICAL SUMMARY SHEET

### HAC415 series – 800KW to 1200KW 3 PHASE AC LOAD BANKS

#### Features

- SIMPLE OPERATION
- INTELLIGENT HAND HELD CONTROLLER
- SAFETY ISOLATION CONTACTORS
- FAN FAIL PROTECTION
- HIGH POWER
- STAR OR DELTA OPERATION
- FUSE PROTECTION
- PARALLEL OPERATION
- PC DATA LOGGING OPTION
- TWIST LOCK CABLE CONNECTOR OPTION



1200KW trailer mount unit illustrated ( 2 x 600KW modules )

The Hillstone HAC series load banks offer a low cost solution to on-site AC testing of generators and UPS systems. Units incorporate force cooled high powered resistor elements controlled via our intelligent hand held controller and digital meter. Safety features including HRC fuse protection, fan failure shut down and emergency stop push button. A PC interface with data logging facilities is also available. Units can also be supplied mounted on road trailers

#### Performance table

LOAD BANK type ref.	Max volts	Power at 415V	Amps at 415V	Power at 400V	Amps at 400V	Power at 380V	Amps at 380V	Approx weight
HAC415-800	415V	800KW	1111A	735KW	1065A	672KW	1018A	1000kgs
HAC415-1000	415V	1000KW	1389A	918KW	1331A	840KW	1273A	1300kgs
HAC415-1200	415V	1200KW	1666A	1100KW	1596A	1008KW	1526A	1400kgs

#### Specification

Max voltage	415 volts, three phase, 4 wire star with neutral , or 3 wire delta					
Frequency	50 hz ( 60 hz optional )					
Rating	see above table					
Adjustment	from 1KW to max power, selected via hand held controller as description over leaf .					
Controls	Control / fan control switch and emergency stop push button					
Panel meter	Digital display of Line volts, phase, volts, amps, power and frequency					
Cable termination	Internal bus bars, accessed via lockable door					
Cooling	3 phase, 50 Hz, horizontal force air cooling fans, powered from the test source or auxiliary three phase mains supply ( see note 4 )					
Element type	Insulated, air cooled, stainless steel, Incoly, sheathed resistor elements ( see note 2 )					
Environmental Protection	Designed for outdoor operation, electrical control chamber IP54, element chamber IP21					
Construction	Twin module assembly supplied on a single, zinc plated steel base frame with folk pockets					
Twin module size	2230 mm long x 1840 mm wide x 1350 mm high					
Finish	Powered coated, textured finish RAL 7032					
Operating temperature	0-50 deg C					
Storage temperature	0-80 deg C					
Movement	Skid mounted with folk lift facilities ( see note 5 )					
Optional extras	Road trailer	Panel switch controls	Test cable sets	Sun shield	Aluminised steel	Castors
	PC interface & data logging software	Louvered inlet and outlets	480V / 277V designs	available		

## TECHNICAL SUMMARY SHEET HAC415 series continued .....

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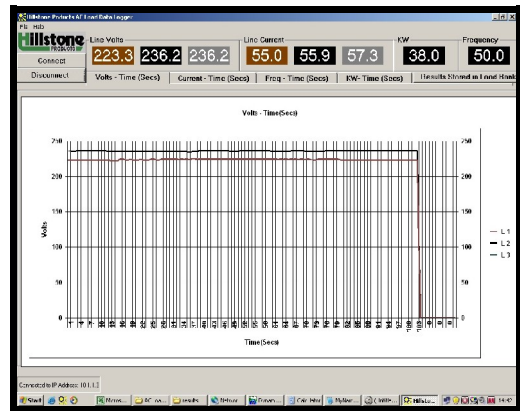
### HAND HELD CONTROLLER – *iHHC* operation

The iHHC ( intelligent hand held controller ) provides remote control and display of the load bank power level. Two modes of operation are provided :

**Load adjust mode** allows the operator to pre-select the required load in KW's as displayed on the iHHC. Pressing the **ACCEPT** button on the iHHC will instruct the load bank to connect the requested power level and then automatically change the iHHC to **Running Load Mode**. During **Running Load Mode** the operator can make incremental adjustments of the power level by pressing the **LOADUP** or **LOADDOWN** buttons. Any changes to the load selection will be shown on the iHHC display.

Notes : During **Running Load Mode** an operator can pre-select and **ACCEPT** an alternative load setting to simulate load profiles. A single iHHC can also control and display the total power of multiple, parallel connected load banks.

The iHHC will automatically display the measured KW's during Running Load mode. A ten metre interconnection control cable is provided with the iHHC. Longer control cables are available on request



typical PC display

### Optional extras - additional information

#### PC INTERFACE & DATA LOGGING SOFTWARE

The PC interface and data logging software allows transfer and storage of test data to a laptop or PC using Hillstone software, ( see note 7 ) The computer display includes line volts, phase volts, line current, power and frequency plus a real time graphical display.



Single 600KW module illustrated



Typical control panel and cable connections

#### Notes :

- Units are rated for continuous operation at max volts
- Standard resistance element tolerance +/- 5%
- Data logging software OS compatibility : Microsoft Windows XP
- An optional panel mounted control switch is available for selection of fan and controls from either a separate auxiliary mains or test source.
- Optional heavy duty castors are available
- Changes to specification, components, dimensions or weights may vary without prior notice.
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