

Wärtsilä JOVYLOAD SMART

PRODUCT LEAFLET



The Wärtsilä JOVYLOAD SMART type series with a performance range of 5 kW up to 20 kW was particularly developed for mobile application. The compact design of these test resistors as well as the swivel castors and the lateral carrying handles guarantee easy transport and handling. In this way load tests can quickly and safely be performed with Wärtsilä JOVYLOAD SMART systems, straightforwardly and independently of any location.

MATURE DESIGN, MODULAR STRUCTURE

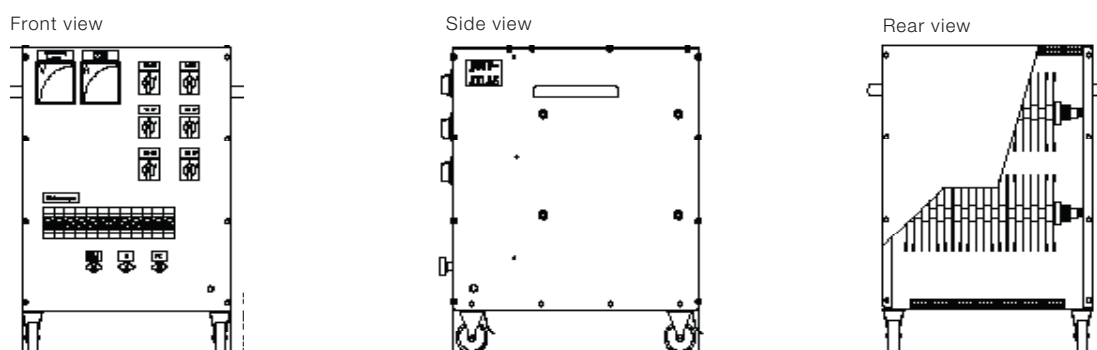
The test resistors of the Wärtsilä JOVYLOAD SMART series are equipped with a strong stainless steel housing. These systems have a standard ultramarine blue coating (RAL 5002); the colours can be customised. On request we can also deliver the housing in stainless steel. All load banks are mounted on swivel castors and mobile applications are therefore easy to handle. For simple operation the load increments are directly selected via manual switches at the device. The load connection is done via externally accessible, insulated cable clamps. The load banks of the Wärtsilä JOVYLOAD SMART series are manufactured with AC as well as with DC connectors.

In order to realise the different voltage connections and load steps we apply the following resistor elements:
Tube resistors of the type Wärtsilä JOVYLOAD WW, consisting of (copper nickel) wire-wound ceramic tubes), showing a constant ohm value over a wide temperature range. By variation of diameter and length different performance values can be achieved.

Resistor modules Wärtsilä JOVYLOAD WPR, consist of a steel sheet fitted with ceramic carriers on which a wire winding is applied. With this design high resistance values can be achieved with combining smallest footprint with high accuracy. The resistance module WPR guarantees constant ohm values over wide temperature ranges and a particularly high overload capacity during short-term load. The flat structure in different length and width enables a place-saving, compact design.

Resistor grids Wärtsilä JOVYLOAD HWS, consist of steel resistor grids die-cut in a meander shape. Different cutting patterns enable the realisation of precisely defined resistor values. The Wärtsilä JOVYLOAD SMART series incorporate single elements of this type with 45 different resistance values and a power load of up to 150 A / 500 W per steel grid. Via parallels and serial connection almost all conceivable resistance values can be realised. The used resistor elements are exceptionally heat-resistant and robust.

Fig.1 Wärtsilä JOVYLOAD SMART



TECHNICAL DATA

Power	5 kW up to 20 kW
Temperature coefficient	0,000251 /°C
Cooling	natural
Mode of operation	permanent operation
Protection degree	IP 20, IP 23 optionally available

TYPE OVERVIEW

	Connection voltage [V]	Power in total [kW]	Power steps [kW]	Dimensions W x H x D [mm]	Weight [kg]
Wärtsilä JOVYLOAD SMART 5-24	24 VAC/VDC	5	0,5/1/1,5/2	384x600x400	25
Wärtsilä JOVYLOAD SMART 5-48	48 VAC/VDC	5	0,5/1/1,5/2	384x600x400	25
Wärtsilä JOVYLOAD SMART 5-110	110 VAC/VDC	5	0,5/1/1,5/2	584x600x400	30
Wärtsilä JOVYLOAD SMART 5-230	230 VAC/VDC	5	0,5/1/1,5/2	584x600x400	30
Wärtsilä JOVYLOAD SMART 5-400	3 x 400 VAC	5	0,5/1/1,5/2	584x600x400	30
Wärtsilä JOVYLOAD SMART 10-48	48 VAC/VDC	10	0,5/1/1,5/2/5	584x600x400	30
Wärtsilä JOVYLOAD SMART 10-110	110 VAC/VDC	10	0,5/1/1,5/2/5	794x600x400	35
Wärtsilä JOVYLOAD SMART 10-230	230 VAC/VDC	10	0,5/1/1,5/2/5	794x600x400	35
Wärtsilä JOVYLOAD SMART 10-400	3 x 400 VAC	10	0,5/1/1,5/2/5	794x600x400	35
Wärtsilä JOVYLOAD SMART 15-110	110 VAC/VDC	15	0,5/1/1,5/2/5/5	584x700x600	45
Wärtsilä JOVYLOAD SMART 15-230	230 VAC/VDC	15	0,5/1/1,5/2/5/5	584x700x600	45
Wärtsilä JOVYLOAD SMART 15-400	3 x 400 VAC	15	0,5/1/1,5/2/5/5	584x700x600	45
Wärtsilä JOVYLOAD SMART 20-400	3 x 400 AC	20	0,5/1/1,5/2/5/5/5	684x700x600	52

OPTIONS

- Voltmeter DC or AC, Voltmeter AC switchable
- Amperemeter DC or AC, Amperemeter AC switchable
- Frequencymeter
- Connection terminal for external measurement devices
- Connection cable with battery clamps, 5 m or with CEE-Stecker, 5 m
- Protection degree IP 23 for the resistance
- Housing base for stand alone positioning
- Stainless steel design without varnishing

- **MOBILE LOAD RESISTOR**
- **VERY LOW TEMPERATURE COEFFICIENT**
guarantees high accuracy of the resistance values
- **EASY HANDLING**
- **SECURED LOAD STEPS**
- **CUSTOMISED DESIGN-**
Special colours, Stainless steel housing etc.
- **NUMEROUS OPTIONS AVAILABLE**

Fig.2 Wärtsilä JOVYLOAD SMART

