

Compact ready-to-install self-adjusting equipment complete with microprocessor based controller, capacitors, control gear and protection devices. RAM 4400 is especially designed for central or sub-department PF correction of medium to large power systems with low or moderate harmonic content.

TECHNICAL SPECIFICATION

Rated voltage: 400 V, 440 V (other rated voltages on request)
 Rated frequency: 50 Hz (60 Hz on request)
 Temperature: -10 + 40°C
 Cabinet: Epoxy powder coated sheet steel (RAL7035 colour)
 Free standing type, hinged door with screw lock
 Modular design with up to 3 removable capacitor chassis
 Top cable entry (neutral not required)
 Protect. degree: IP30 with closed cabinet
 Cooling: Forced ventilation controlled by thermostat built-into the controller
 Controller: Microprocessor type Varactor V650 (or V650S), size 144*144mm.
 Capacitors: **Standard duty types:** self-healing metallised polypropylene dielectric, 3-phase capacitors rated 440V, temperature class -25/D (55°C), aluminium can with overpressure disconnector and discharge resistor
Heavy duty types: heavy duty gas-filled (nitrogen) self-healing metallised polypropylene dielectric, 3-phase capacitors rated 440V, temp. class -25/D (55°C), aluminium can with overpressure disconnector and discharge resistors
 Contactors: With inrush current suppressors (soft switching system)
 Protections: Load break isolating switch with door interlock and contactors pre-release micro switch, HRC (NH00) fuses
 Losses: Equipment: < 1,5 W/kvar
 Installation: Indoor, R.H. < 90% (non condensing), altitude < 2000 m.
 Standards: EN60439-1/2, EN 61921-1, EN 60831-1/2

Qn (kvar)	Banks (kvar)						Steps	In (A) at 400V	Weight (kg)	P.N.
	1	2	3	4	5	6				

Standard duty types

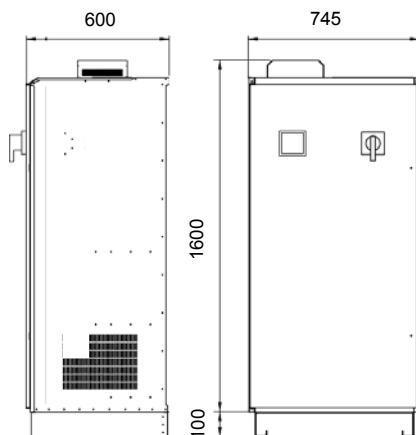
Un = 400V

250 (*)	25	25	50	50	50	50	10	360	157	RAM 4400 250-400
275 (*)	25	50	50	50	50	50	11	396	160	RAM 4400 275-400
300 (*)	25	50	50	50	50	75	12	432	163	RAM 4400 300-400
325	25	50	50	50	50	100	13	468	169	RAM 4400 325-400
350	25	50	50	50	75	100	14	504	172	RAM 4400 350-400
375	25	50	50	50	100	100	15	540	174	RAM 4400 375-400
400	50	50	50	50	100	100	8	576	177	RAM 4400 400-400
450	50	50	50	100	100	100	9	648	180	RAM 4400 450-400

Heavy duty types

Un = 400V

250 (*)	25	25	50	50	50	50	10	360	143	RAM 4400-HG 250-400
275 (*)	25	50	50	50	50	50	11	396	146	RAM 4400-HG 275-400
300 (*)	25	50	50	50	50	75	12	432	157	RAM 4400-HG 300-400
325	25	50	50	50	50	100	13	468	162	RAM 4400-HG 325-400
350	25	50	50	50	75	100	14	504	164	RAM 4400-HG 350-400
375	25	50	50	50	100	100	15	540	166	RAM 4400-HG 375-400
400	50	50	50	50	100	100	8	576	169	RAM 4400-HG 400-400
450	50	50	50	100	100	100	9	648	171	RAM 4400-HG 450-400



VARACTOR V650 microprocessor controller

- Microprocessor operation
- 3-digit led display with 5 readings (PF, V, Δkvar, THC% over-current, °C) + alarms indication
- alarms and automatic equipment shutdown for over-Volt, over current (harmonics) and over-temperature.
- low PF level warning indicator
- alarm output contact
- built-in thermostat for cooling fan control
- two manual working modes (bank summation and banks distinctly)
- automatic CT orientation and C/K setting
- 20 sec. switching interval (others on demand).



VARACTOR 650S controller (available on demand)

Same features of the standard V650 controller but built-in Supertec system with solid-state outputs and contactors' electronic control ensuring:

- stabilised contactors supply over extreme line variations
- 90 % reduction of contactor heat dissipation
- comprehensive extension of contactor and capacitor life



Expandable power

The models indicated by (*) may be supplied, on request, complete with built-in electrical and mechanical provisions for power expansion by means of 1 add-on capacitor chassis.



Special versions on request:

- Other rated voltages and frequencies
- Cabinet with bottom cable entry
- IP54 cabinet (size 800 x 600 x 1700 mm)
- Equipment for cogeneration systems