

## Medium Frequency Capacitors, Water Cooled All-Film Technology up to 5000 Hz



### FEATURES

- Dielectric liquid biodegradable
- High quality materials
- Massive connection studs (M20)

### APPLICATIONS

- Induction furnaces and heaters
- Improve power factor
- Tune special furnace circuits

### STANDARDS

- IEC CEI 60110-1

### Note

- Capacitor in accordance with other standards available upon request

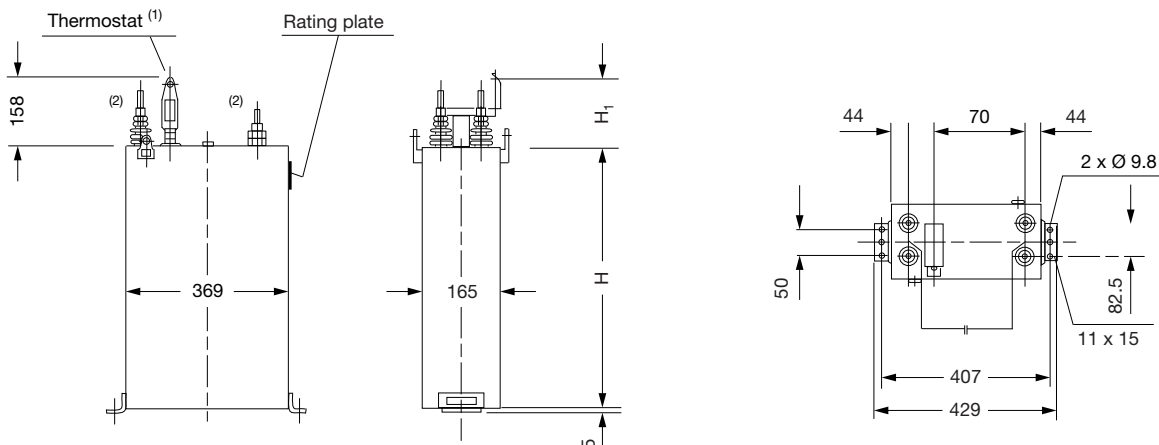
### QUICK REFERENCE DATA

Series	Phawo...k.. medium frequency capacitors
Description	Medium frequency capacitors, water cooled, indoor
Type	Capacitors, induction heating
Technology	All-film polypropylene / aluminum foil
Voltage min. (V)	200
Voltage max. (V)	3000
Frequency min. (Hz)	75
Frequency max. (Hz)	8000
Output min. (kvar)	150
Output max. (kvar)	5000

### TECHNICAL DATA

Internal connection	Dead or live case
Temperature category	+1 °C to +50 °C
Capacitance tolerance	-10 % / +10 %
Dielectric	All-film polypropylene / aluminum foil
Impregnating agent	Synthetic oil (non-PCB)
Protection	Pressure monitoring device / thermostat
Standards	IEC CEI 60110-1
Cooling system	Water cooling, outflowing water temperature 40 °C maximum
Bushings	Porcelain, screw type, M20
Casing	Brass sheet welded
Mounting	Upright or horizontally position
Standard color	RAL 7033 / other colors available upon request
Erection	Indoor

## FORMS OF CONSTRUCTION



Standard case dimensions: 369 mm x 165 mm x H mm (other dimensions upon request)

### Notes

- (1) Upon request
- (2) Water connection

DIMENSIONS AND WEIGHT						
FREQUENCY f (Hz)	RATED VOLTAGE U <sub>N</sub> (V)	OUTPUT Q <sub>n</sub> (kvar)	CURRENT (A)	BUSHING	CASING DIMENSIONS L x W x H (mm)	WEIGHT (kg)
150	600	800	1333	M20	369 x 165 x 1000	85
150	3000	2000	667	M20	369 x 165 x 1000	85
300	600	1375	2400	M20	369 x 165 x 1000	85
300	3000	4000	1333	M20	369 x 165 x 1000	85
600	250	560	2240	M20	369 x 165 x 1000	85
600	3000	8000	2667	M20	369 x 165 x 1000	85
1000	250	625	2500	M20	369 x 165 x 700	66
1000	2500	6250	2500	M20	369 x 165 x 950	82
3000	250	625	2500	M20	369 x 165 x 500	51
3000	2000	5000	2500	M20	369 x 165 x 500	51
5000	250	600	2400	M20	369 x 165 x 550	56
5000	2000	4800	2400	M20	369 x 165 x 550	56

### Note

- Shown are the maximum power ratings.  
Other ratings and voltages are available on request

TYPE NOMENCLATURE												
<div><div>P</div><div>1</div></div>	<div><div>h</div><div>2</div></div>	<div><div>a</div><div>3</div></div>	<div><div>w</div><div>4</div></div>	<div><div>o</div><div>5</div></div>	<div><div>s</div><div>6</div></div>	<div><div>750</div><div>7</div></div>	<div><div>/</div><div>8</div></div>	<div><div>1800</div><div>9</div></div>	<div><div>/</div><div>10</div></div>	<div><div>1k</div><div>11</div></div>	<div><div>-</div><div>12</div></div>	<div><div>DR</div><div>13</div></div>
1	2	3	4	5	6	7	8	9				
1	2	3	4	5	6	7	8	9				
Ph: power capacitor	a: all film dielectric	w: water cooled	o: non PCB impregnating agent	s: live casing n. E.: dead casing	Voltage (V or kV)	Total output (kvar)	Frequency (kHz)	DR: pressure switch ST: thermostat KL: PTC resistor				

### Note

- n. E. = no entry



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