



Other Products

Flask Supports.
Ultrasonic Cleaners.
Magnetic Drives.

General Applications

Flask Supports

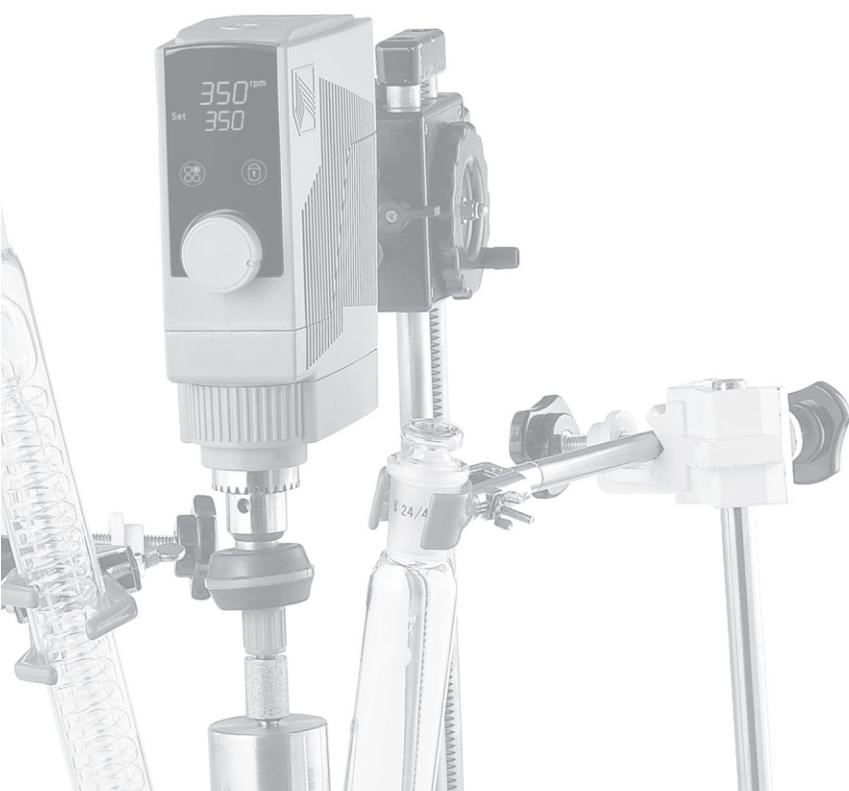
- Concave recesses secure safety including various flask shapes.

Ultrasonic Cleaners

- Cleaning for laboratory, medical ware / industrial micro goods / glasses, jewels.

Magnetic Drives

- Blends, Biotech, Catalyst preparation, Food products, Fuels, Liquids, Solvents, Lacquers, Multiphase catalytic reactions, Oils, Synthetic materials, Specialty chemicals, Polymers, Plymers, Slurries, Starches, Pulp and paper, Particle synthesis.



Flask Supports

Its concave recesses secure safety including various flask shapes.

Convenient grip for easy to carry.

Recognizable name tag provide for easy classification.[except FT010 34]

Useful for ice container and other purpose.

Features

- Flask size : 100ml, 250ml, 500ml, 1000ml, 2000ml
- Excellent chemical resistance to various organic solvents
- Material : PP (Polypropylene)
- Heat Resistance : -30°C~ + 121°C



Specifications & Ordering Informations

Model	FT 010 13	FT 010 34	FT 025 12	FT 025 23
Capacity (ml)	100	100	250	250
Hole (Dia, ×H) (mm / inch)	70×91 / 2.76×3.58	70×91 / 2.76×3.58	98×122 / 3.86×4.8	98×122 / 3.86×4.8
Dimensions (W×D×H) (mm / inch)	310×100×100 / 12.2×3.94×3.94	384×265×98 / 15.12×10.43×3.86	280×125×130 / 11.02×4.92×5.12	389×239×130 / 15.31×9.41×5.12
Cat. No.	AAA23706	AAA23701	AAA23707	AAA23702

Model	FT 050 12	FT 100 12	FT 200 12
Capacity (ml)	500	1000	2000
Hole (Dia, ×H) (mm / inch)	121×128 / 4.76×5.04	148×156 / 5.83×6.14	183×188 / 7.2×7.4
Dimensions (W×D×H) (mm / inch)	360×146×135 / 14.17×5.75×5.31	415×192×165 / 16.34×7.56×6.5	503×223×199 / 19.8×8.78×7.83
Cat. No.	AAA23703	AAA23704	AAA23705

Ultrasonic Cleaners



Go to **JEIOTECH.com**

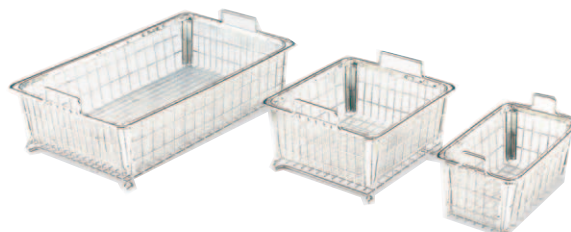
Further information on Temperature Chamber products is readily available on our website.



UC-10 included cover and basket



UC-02 / UC-20



US-20 included cover and basket / Basket for UC/US series

Ultrasonic Cleaners

Aggressive cleaning ability in a variety of sizes!

Industrial B.L.T type ultrasonic transducer (Bolt Clamped Langevin Type Transducer) generates high-frequency sound waves that provide maximum cleaning power. UC/ US-P types are increased the frequency to improve cleaning ability.

Features for UC series (ABS / PBT housing, SUS tank)

- Durable leakproof ABS / PBT housing and cover with 304 stainless steel tanks.
- Maximum heater temperature is 70°C. (only 50°C for UC-02)
- Digital LED display using splash-proof keypads: timer (1 to 99 min), temperature monitor. (UC-02 is only On/Off)
- High-frequency 40 kHz sound waves provide greater cleaning power and increased reliability.
- Multiple frequency on 3 stages for both gentle cleaning and intensive cleaning. (without UC-02)

Included Accessories

- Cover
- 304 stainless steel wire basket

Specifications & Ordering Informations



Model		UC - 02	UC - 10 [10P]	UC - 20 [20P]
Bath volume [L / cu ft]		2.0 / 0.07	10.0 / 0.35	20.0 / 0.70
Temperature range [°C / °F]		Amb. ~ to 50 Amb. ~ to 122	Amb. ~ to 70 / Amb. ~ to 158	
Ultrasonic power [W]		70	200 [300]	400 [500]
Dimensions	Bath internal (W×L, D) (mm / inch)	142×132, 104 / 5.6×5.2, 4.1	300×240, 150 / 11.8×9.4, 5.9	495×292, 150 / 19.5×11.5, 5.9
	Overall (W×L×H) (mm / inch)	290×210×200 / 11.4×8.4×7.9	490×368×297 / 19.3×14.5×11.7	721×451×297 / 28.4×17.8×11.7
	Net weight (kg / lbs)	2.0 / 4.4	11.0 / 24.3	17.0 / 37.5
Electrical Requirements (230V, 50 / 60Hz)		0.3A	0.9A (1.3A)	1.7A (2.2A)
Cat. No.		BDH53015	BDH53045 (BDH53055)	BDH53065 (BDH53075)
Electrical Requirements (120V, 50 / 60Hz)		0.6A	1.7A (2.5A)	3.3A (4.2A)
Cat. No.		BDH53013	BDH53043 (BDH53053)	BDH53063 (BDH53073)

Features for US series (Steel housing, SUS tank)

- All parts are made of durable 304 stainless steel tanks, cover and powder coating steel housing.
- Maximum heater temperature is 70°C.
- Digital LED display using splash-proof keypads: timer (1 to 99 min), temperature monitor.
- High-frequency 40 kHz sound waves provide greater cleaning power and increased reliability.
- Multiple frequency on 3 stages for both gentle cleaning and intensive cleaning.

Included Accessories

- Cover
- 304 stainless steel wire basket

Specifications & Ordering Informations

Model		US-05 (05P)	US-10 (10P)	US-20 (20P)
Bath volume [L / cu ft]		5.7 / 0.20	10.0 / 0.35	20.0 / 0.70
Temperature range [°C / °F]		Amb. ~ to 70 / Amb. ~ to 158		
Ultrasonic power [W]		150 [200]	200 [300]	400 [500]
Dimensions	Bath internal (W×L, D) (mm / inch)	300×150, 150 / 11.8×5.9, 5.9	300×240, 150 / 11.8×9.4, 5.9	495×292, 150 / 19.5×11.5, 5.9
	Overall (W×L×H) (mm / inch)	380×236×300 / 15.0×9.3×11.8	360×300×300 / 14.2×11.8×11.8	565×360×300 / 22.2×14.2×11.8
	Net weight (kg / lbs)	9.0 / 19.8	12.5 / 27.6	19.0 / 41.9
Electrical Requirements (230V, 50 / 60Hz)		0.7A (0.9A)	0.9A (1.3A)	1.7A (2.2A)
Cat. No.		BDH53125 (BDH53135)	BDH53145 (BDH53155)	BDH53165 (BDH53175)
Electrical Requirements (120V, 50 / 60Hz)		1.3A (1.7A)	1.7A (2.5A)	3.3A (4.2A)
Cat. No.		BDH53126 (BDH53136)	BDH53146 (BDH53156)	BDH53166 (BDH53176)

Magnetic Drives

These drives are designed for an agitation with full vacuum of flask. Also, its exchangeable according to users needs like replacing impeller and shaft.



Magnetic Drive

Feature

- Use of rare-earth element which is Neodymium(Nd), Samarium(Sm-Co) magnetic.
- High-speed RPM, vibration-free operation.
- Specially designed permanent magnets which have dynamic torque rating of drive throughout it's operation.
- Small size and powerful rotation magnetic drive is useful Both for laboratory and manufacture.



Application of Magnetic Drive

Specifications

Model		MD-T6-24	MD-T6-29	MD-T6-34
Ground joint		24 / 40	29 / 42	34 / 45
Material	Body / Housing	SUS316L / CR-PLATE		
	Bushing / Seal	PTFE / Viton		
Driving	Vacuum	Max. 1×10^{-4} mmHg		
	Pressure	Max. 5kg / cm ²		
	Temp	Max. 70°C (without cooling), Max. 300°C (with cooling)		
Shaft size (Ø, mm)		Ø8		
Cooling in / out size (Ø, mm)		Ø3.2		
Dimension (Ø×L, mm)		Ø50×200		
Weight (kg / lbs)		1.02 / 2.25	1.04 / 2.29	1.08 / 2.38
Cat. No.		BEA 511001	BEA 511002	BEA 511003

Appendix

Lab Companion
2010 - 11 Product Catalog



Technical Date

Chemicals- Periodic Table

Period

group

1	1A
2	2A
3	3A
4	4A
5	5A
6	6A
7	7A
8	8A
9	9A
10	10A
11	11A
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6	6A
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9	9A
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15	15A
16	16A
17	17A
18	18A

PERIODIC TABLE OF THE ELEMENTS KEY

METAL
ALKALI METAL
ALKALINE EARTH METAL
TRANSITION METAL
LANTHANIDE SERIES
ACTINIDE SERIES

SEMI-METAL
NONMETAL
HALOGEN
NOBLE GAS

STANDARD STATE
He GAS
Li SOLID
Br LIQUID
Tc SYNTHETIC

GROUP 1U PAC
ATOMIC NUMBER
SYMBOL
ELEMENT NAME
Boron

GROUP GAS
ATOMIC NUMBER
SYMBOL
ELEMENT NAME
Helium

19	39.098	20	40.078	21	44.956	22	47.867	23	50.942	24	51.996	25	54.938	26	55.845	27	58.933	28	58.693	29	63.546	30	65.39	31	69.723	32	72.64	33	72.922	34	78.96	35	79.904	36	83.80
K	Ca	Sc	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr																		
Potassium	Calcium	Scandium	Titanium	Vanadium	Chromium	Manganese	Iron	Cobalt	Nickel	Copper	Zinc	Gallium	Germanium	Arsenic	Selenium	Bromine	Krypton																		
37	85.468	38	87.62	39	88.906	40	91.224	41	92.906	42	95.94	43	[98]	44	101.07	45	102.91	46	106.42	47	107.87	48	112.41	49	114.82	50	118.71	51	121.76	52	127.60	53	126.90	54	131.29
Rb	Sr	Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd	In	Sn	Sb	Te	I	Xe																		
Rubidium	Strontium	Yttrium	Zirconium	Niobium	Molybdenum	Technetium	Ruthenium	Rhodium	Palladium	Silver	Cadmium	Indium	Tin	Antimony	Tellurium	Iodine	Xenon																		
55	132.91	56	137.33	57-71	72	178.49	73	180.95	74	183.84	75	186.21	76	190.23	77	192.22	78	195.08	79	196.97	80	200.59	81	204.38	82	207.20	83	208.98	84	[209]	85	[210]	86	[222]	
Cs	Ba	La-Lu	Hf	Ta	W	Re	Os	Ir	Pt	Au	Hg	Tl	Pb	Bi	Po	At	Rn																		
Cesium	Barium		Hafnium	Tantalum	Tungsten	Rhenium	Osmium	Iridium	Platinum	Gold	Mercury	Thallium	Lead	Bismuth	Polonium	Astatine	Radon																		
87	[223]	88	[226]	89-103	104	[261]	105	[262]	106	[266]	107	[264]	108	[277]	109	[268]	110	[281]	111	[272]	112	[285]	113	[284]	114	[289]	115	[288]	116	[289]	117	[290]	118	[293]	
Fr	Ra	Ac-Lr	Rf	Db	Sg	Bh	Hs	M	Uun	Uuu	Uub	Uuq	Uuh	Uuo																					
Francium	Radium		Rutherfordium	Dubnium	Seaborgium	Bohrium	Hassium	Meitnerium	Ununilium	Ununium	Unbibium	Unbiquadium	Untriseptium	Unquadium																					

LANTHANIDE SERIES

57	138.91	58	140.12	59	140.91	60	144.24	61	[145]	62	150.36	63	151.96	64	157.25	65	158.93	66	162.50	67	164.93	68	167.26	69	168.93	70	173.04	71	174.97	
La	Ce	Pr	Nd	Pm	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu																
Lanthanum	Cerium	Praseodymium	Neodymium	Promethium	Samarium	Europium	Gadolinium	Terbium	Dysprosium	Holmium	Erbium	Thulium	Ytterbium	Lutetium																
89	[227]	90	232.04	91	231.04	92	238.03	93	[237]	94	[244]	95	[243]	96	[247]	97	[247]	98	[251]	99	[252]	100	[257]	101	[258]	102	[259]	103	[262]	
Ac	Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Md	No	Lr																
Actinium	Thorium	Protactinium	Uranium	Neptunium	Plutonium	Americium	Curium	Berkelium	Californium	Einsteinium	Fermium	Mendelevium	Nobelium	Lawrencium																

ACTINIDE SERIES

Technical Data

Formulas, Conversions and Engineering Constants

Conversion Factors

To Convert To...		Multiply...		By...
Atmospheres	(atm)	Bar		0.9869
Atmospheres	(atm)	Inches Mercury	(in Hg)	0.03342
Atmospheres	(atm)	Pounds/square inch	(psi)	0.06805
Atmospheres	(atm)	Torr		0.001316
Bar		Atmospheres	(atm)	1.0133
Bar		Pounds/square inch	(psi)	0.06895
British Thermal Units	(BTU)	Joules	(J)	0.000948
British Thermal Units	(BTU)	Kilowatt-hours	(kWH)	3412
British Thermal Units	(BTU)	Watt-hours	(WH)	3.412
British Thermal Units/hour	(BTU/h)	Kilocalories/hour	(kcal/h)	3.969
British Thermal Units/hour	(BTU/h)	watts	(W)	3.412
British Thermal Units+inches hour-square foot-°F	$\frac{(\text{BTU} \cdot \text{in})}{(\text{h} \cdot \text{ft}^2 \cdot ^\circ\text{F})}$	watts/meter-°C	(W/m-°C)	6.933
British Thermal Units/pound	(BTU/lb)	Kilojoules/kilogram	(kJ/kg)	0.4299
British Thermal Units/pound-°F	(BTU/lb-°F)	Kilojoules/kilogram-°C	(kJ/Kg-°C)	0.2388
Calories	(cal)	Joules	(J)	0.2388
Centimeters	(cm)	Feet	(ft)	30.48
Centimeters	(cm)	Inches	(in)	2.54
Centimeters/second	(cm/s)	Feet/minute	(FPM)	0.508
Cubic Centimeters	(cm³ or cc)	Cubic feet	(ft³)	28.320
Cubic Centimeters	(cm³ or cc)	Cubic inches	(in³)	16.39
Cubic Centimeters	(cm³ or cc)	Milliliters	(ml)	1.0
Cubic feet	(ft³)	Cubic meters	(m³)	35.32
Cubic feet	(ft³)	Gallons, U.S.	(gal)	0.1337
Cubic feet	(ft³)	Liters	(l)	0.03532
Cubic feet/minute	(CFM)	Cubic meters/hour	(m³/h)	0.5885
Cubic feet/minute	(CFM)	Cubic meters/second	(m³/s)	2119
Cubic feet/minute	(CFM)	Liters/second	(l/s)	2.119
Cubic inches	(in³)	Cubic centimeters	(cm³ or cc)	0.061
Cubic meters	(m³)	Gallons, U.S.	(gal)	0.003785
Cubic meters	(m³)	Liters	(l)	0.001
Cubic meters	(m³)	Cubic feet	(ft³)	0.02832
Cubic meters/hour	(m³/h)	Cubic feet/minute	(CFM)	1.699
Cubic meters/hour	(m³/h)	Gallons/minute	(GPM)	0.2271
Cubic meters/second	(m³/s)	Cubic feet/minute	(CFM)	0.000472
Feet	(ft)	Centimeters	(cm)	0.03281
Feet	(ft)	Meters	(m)	3.281
Feet/minute	(FPM)	Centimeters/second	(cm/s)	1.969
Feet/minute	(FPM)	Meters/second	(m/s)	196.9
Gallons, imperial		Gallons, U.S.	(gal)	0.8327
Gallons, U.S.	(gal)	Cubic feet	(ft³)	7.481
Gallons, U.S.	(gal)	Cubic meters	(m³)	264.2
Gallons, U.S.	(gal)	Gallons, imperial		1.201
Gallons, U.S.	(gal)	Liters	(l)	0.2642
Gallons/minute	(gpm)	Cubic meters/hour	(m³/h)	4.403
Gallons/minute	(gpm)	Liters/second	(l/s)	15.85
Grams	(g)	Ounces	(oz)	28.35
Grams	(g)	Pounds	(lb)	453.6
Grams/cubic centimeter	(g/cm³)	Kilograms/cubic meter	(kg/m³)	0.001
Grams/cubic centimeter	(g/cm³)	Pounds/cubic foot	(lb/ft³)	0.01602
Grams/cubic centimeter	(g/cm³)	Pounds/cubic inch	(lb/in³)	27.68
Inches	(in)	Centimeters	(cm)	0.3937
Inches	(in)	Millimeters	(mm)	0.03937
Inches Mercury	(in Hg)	Atmospheres	(atm)	29.92
Inches Mercury	(in Hg)	Torr		25.4

Technical Date

To Convert To...		Multiply...		By...
Joules	[J]	British Thermal Units	[BTU]	1055
Joules	[J]	Calories	[cal]	4.187
Joules	[J]	Watt-hours	[WH]	36.00
Joules/second	[J/s]	British Thermal Units/hour	[BTU/h]	0.2931
Joules/second	[J/s]	Watts	[W]	1
Kilocalories/hour	[kcal/h]	BTU/hour	[BTU/h]	0.252
Kilograms	[kg]	Pounds	[lb]	0.4536
Kilograms/cubic meter	[kg/m ³]	Grams/cubic centimeter	[g/cm ³]	1000
Kilograms/cubic meter	[kg/m ³]	Pounds/cubic foot	[lb/ft ³]	16.02
Kilograms/square centimeter	[kg/cm ²]	Pounds/square inch	[psi]	0.07031
kilojoules	[kJ]	Watt-hours	[WH]	3.6
Kilojoules/kilogram	[kJ/kg]	British Thermal Units/pound	[BTU/lb]	2.326
Kilojoules/kilogram-°C	[kJ/kg-°C]	British Thermal Units/Pound-°F	[BTU/lb-°F]	4.187
Kilometers/hour	[km/h]	Miles/hour	[MPH]	1.609
Kilopascals	[kPa]	Pounds/square inch	[psi]	6.895
Kilowatts	[kW]	British Thermal Units/hour	[BTU/h]	0.0002931
Kilowatts	[kW]	Watts	[W]	0.001
Kilowatt-hours	[kWH]	British Thermal Units	[BTU]	0.0002931
Kilowatt-hours	[kWH]	Watt-hours	[WH]	0.001
Liters	[l]	Cubic Feet	[ft ³]	28.32
Liters	[l]	Cubic Meters	[m ³]	1000
Liters	[l]	Gallons, U.S.	[gal]	3.785
Liters/second	[l/s]	Cubic feet/minute	[CFM]	0.4719
Liters/second	[l/s]	Gallons/minute	[GPM]	0.06309
Meters	[m]	Feet	[ft]	0.3048
Meters/second	[m/s]	Feet/minute	[FPM]	0.00508
Miles/hour	[MPH]	Kilometers/hour	[km/h]	0.6215
Millimeters	[mm]	Inches	[in]	25.4
Newtons/square meter	[N/m ²]	Pounds/square inch	[psi]	6.895
Ounces	[oz]	Grams	[g]	0.035274
Pounds	[lb]	Grams	[g]	0.002205
Pounds	[lb]	Kilograms	[kg]	2.205
Pounds/cubic foot	[lb/ft ³]	Grams/cubic centimeter	[g/cm ³]	62.43
Pounds/cubic foot	[lb/ft ³]	Kilograms/cubic meter	[kg/m ³]	0.06243
Pounds/cubic inch	[lb/in ³]	Grams/cubic centimeter	[g/cm ³]	0.03613
Pounds/square inch	[psi]	Bar		14.504
Pounds/square inch	[psi]	Kilograms/square centimeter	[kg/cm ²]	14.22
Pounds/square inch	[psi]	Kilopascals	[kPa]	0.145
Pounds/square inch	[psi]	Newtons/square meter	[N/m ²]	0.000145
Square centimeters	[cm ²]	square feet	[ft ²]	929
Square centimeters	[cm ²]	Square inches	[in ²]	6.452
Square feet	[ft ²]	Square centimeters	[cm ²]	0.001076
Square feet	[ft ²]	Square meters	[m ²]	10.76
Square inches	[in ²]	Square centimeters	[cm ²]	0.155
Square meters	[m ²]	Square feet	[ft ²]	0.0929
Torr		Inches Mercury	[in Hg]	0.03937
Torr		Pounds/square inch	[psi]	51.71
Watts	[W]	British Thermal Units/hour	[BTU/h]	0.2931
Watts	[W]	Joules/second	[J/s]	1
Watt-hours	[WH]	British Thermal Units	[BTU]	0.2931
Watt-hours	[WH]	Joules	[J]	0.0002778
Watt-hours	[WH]	Kilojoules	[kJ]	0.2778
Watts/meter-°C	[W/m-°C]	British Thermal Units inches hour-square foot-°F	$\frac{[BTU \cdot in]}{[h \cdot ft^2 \cdot ^\circ F]}$	0.1442
Watts/square centimeter	[W/cm ²]	Watts/square inch	[W/in ²]	0.155
Watts/square inch	[W/in ²]	Watts/square centimeter	[W/cm ²]	6.452

Technical Data

Formulas, Conversions and Engineering Constants

Volts

$$\text{Volts} = \sqrt{\text{Watts} \times \text{Ohms}}$$

$$\text{Volts} = \frac{\text{Watts}}{\text{Amperes}}$$

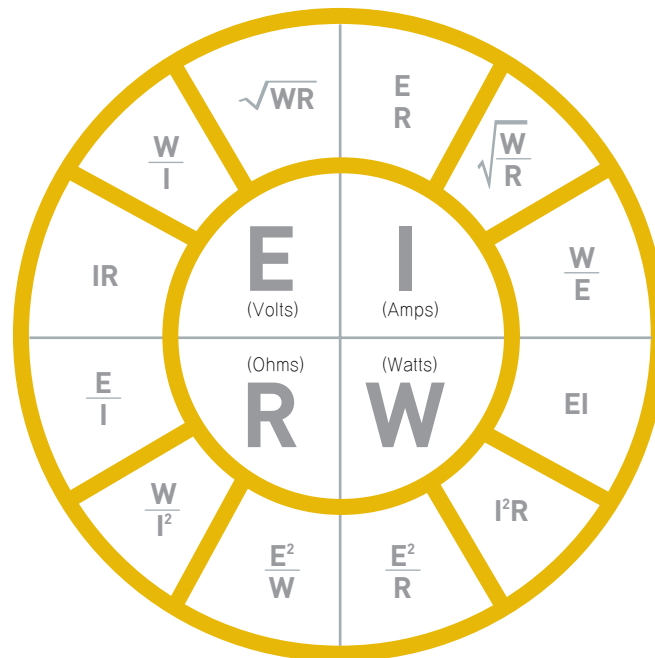
$$\text{Volts} = \text{Amperes} \times \text{Ohms}$$

Ohms

$$\text{Ohms} = \frac{\text{Volts}}{\text{Amperes}}$$

$$\text{Ohms} = \frac{\text{Volts}^2}{\text{Watts}}$$

$$\text{Ohms} = \frac{\text{Watts}}{\text{Amperes}^2}$$



Amperes

$$\text{Amperes} = \frac{\text{Volts}}{\text{Ohms}}$$

$$\text{Amperes} = \frac{\text{Watts}}{\text{Volts}}$$

$$\text{Amperes} = \sqrt{\frac{\text{Watts}}{\text{Ohms}}}$$

Watts

$$\text{Watts} = \frac{\text{Volts}^2}{\text{Ohms}}$$

$$\text{Watts} = \text{Amperes}^2 \times \text{Ohms}$$

$$\text{Watts} = \text{Volts} \times \text{Amperes}$$

Wattage varies directly as ratio of voltages squared.

$$W_2 = W_1 \times \left(\frac{E_2}{E_1} \right)^2$$

$$3 \text{ Phase Amperes} = \frac{\text{Total Watts}}{\text{Volts} \times 1.732}$$

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1) Need to be installed on an universal platform, which is sold separately.

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