MRACLE BOY EFONT-1



Specifications for MB Filter Element *These specifications are for Japan only. If you need specifications for overseas, please contact us.

ModelImage: Constraint of the state of the st
ApplicationStandard type for hydraulic oil and lubricating oil and lubricating oil requiring high precision requiring high precision requiring high precision such as servo valvesFor heavily contaminated hydraulic oil, lubricating oil oil, lubricating oil for hydraulic/lubrication circuits requiring high precision such as servo valvesFor heavily contaminated hydraulic oil, lubricating oil and yeas lubricating oil and wash oil with frequer hioroporation of therein matter and automotive engine oil For heavy/librication circuits reprivate power generator oil and automotive engine oil For heavy/librication circuits private power generator oil and automotive engine oil For heavy/librication circuits for heavistofil oil and coling mill lubricatin gin and exolos does does does and trans to finish nonferous metal lubricating circuits for heavistofil oil and coling mill lubricating circuits for heavistofil oil and coling mill locase/pipe) NBR (Sealed packing)Oute files metal private power generator oil and tubrication disposal possibleOute files metal private power generator oil and tubrication disposal possibleOuter the power generator oil and tubrication disposal possibleOuter file the power generator disp
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Weight (One unit/DRY) Date of delivery550g550g550g1KgModelImage: Second s
Date of deliveryWithin 2 business days after your orderWithin 2 business days after your orderWithin 7 business days after your orderWithin 14 business days after your orderModelImage: GE-21-W4Image: GE-21-W1Image: GE-21-W1Image: GE-21-W1Image: GE-21-W1Image: GE-21-W1
ModelImage: Second
Modelfor the latest data, the applications and the reference cases.ModelGE-21-W4GE-21-W1GE-41-MR1
High-procision water-coluble fluid filtration Heavily contaminated water-coluble fluid filtration High-procision columinated filtration
Application For water-glycol fluid used for die-casting machines, etc. For fluid requiring transparency such as leak For such
test fluid tap changers For oily fluid not requiring For EHC oil, etc. used in moisture removal thermal/nuclear power plants
test fluid function for the provide the provided th
test fluid For oily fluid not requiring moisture removaltap changers For EHC oil, etc. used in thermal/nuclear power plantsYou may request reference materialsMain materialWaterproof nonwoven fabric
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Read the instruction manual before using "Miracle Boy".
Do not install "Miracle Boy" at locations subjected to water, vapor and dust; fire, malfunction or electric shock may occur.



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Amazing filtering rate prevents oil deterioration 99.9%

High-Performance

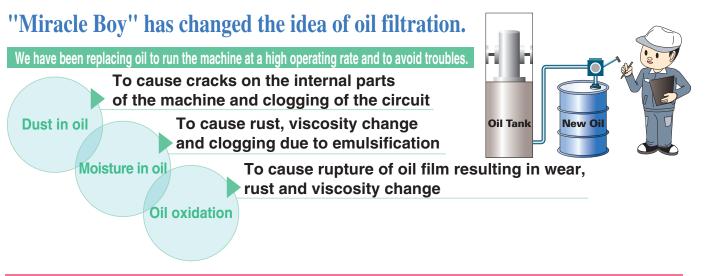
ミラクルボーイ



"Miracle Boy" prevents deterioration of lubricating/hydraulic oil

Eliminating contaminating particles, oxides and moisture (ppm) all together

While we have been taking it for granted that we replace oil before it reaches the usable limit, development of additives and various filtration devices has extended oil life. Our company developed "Miracle Boy", the high-performance filtration device, whose greatest feature is to keep oil fresh, preventing oil deterioration.

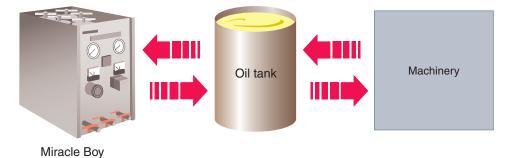


If you install "Miracle Boy", your machine will be free from maintenance, not requiring oil replacement



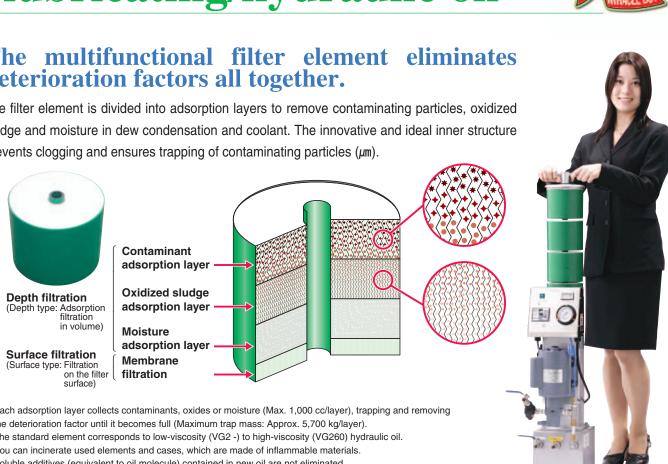
"Miracle Boy" corresponds to almost all machines

"Miracle Boy" works offline with the machine oil tank. Installation is easy. You can replace a filter element without stopping the production line.



The multifunctional filter element eliminates deterioration factors all together.

The filter element is divided into adsorption layers to remove contaminating particles, oxidized sludge and moisture in dew condensation and coolant. The innovative and ideal inner structure prevents clogging and ensures trapping of contaminating particles (μ m)



*Each adsorption layer collects contaminants, oxides or moisture (Max. 1,000 cc/layer), trapping and removing the deterioration factor until it becomes full (Maximum trap mass: Approx. 5,700 kg/layer) *The standard element corresponds to low-viscosity (VG2 -) to high-viscosity (VG260) hydraulic oil *You can incinerate used elements and cases, which are made of inflammable materials *Soluble additives (equivalent to oil molecule) contained in new oil are not eliminated

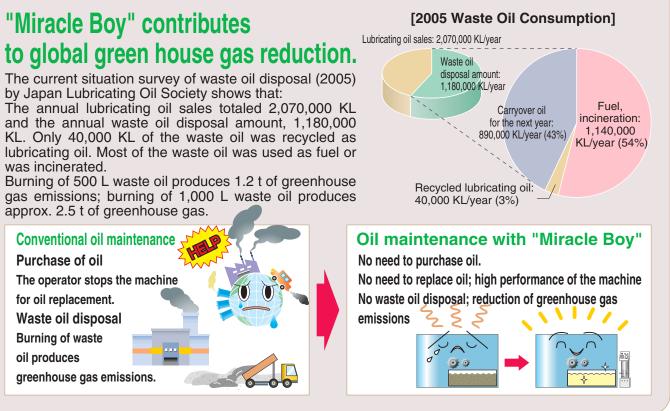
Innovative!

"Miracle Boy" contributes

by Japan Lubricating Oil Society shows that:

was incinerated.

approx. 2.5 t of greenhouse gas.





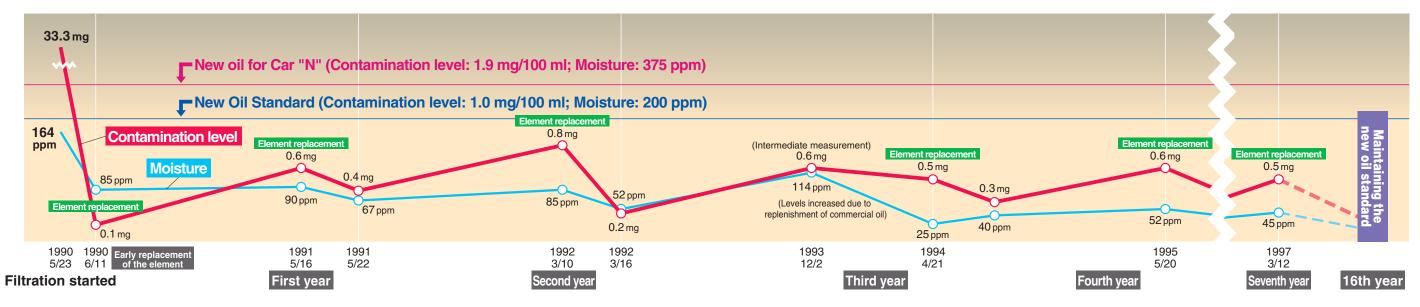
Maintaining the new oil safety standard for 16 years!

[No need to replace oil]

"Miracle Boy" (SRC-814-15V) installed at the dryer bearing lubrication oil (turbine oil) tank of the paper machine at the paper factory

The graph below shows the analysis results of the oil contamination levels and the moisture levels for 16 years from May 1990.

Contamination and moisture are said to be two major causes of machine failures. "Miracle Boy" continuously removes contaminants and moisture, ensuring the oil condition exceeding the new oil standard. "Miracle Boy" also removes oxidized sludge, a cause of oil deterioration, at the same time to reduce contamination.



Cleanliness levels according to applications before/after filtration

After filtration

After filtration

Hydraulic oil for t SRC-811 [The automotive]				
	Unit	Before filtration	After filtration	6 - 10
Kinematic viscosity (40°C)	mm²/s	44.78	44.87	
Moisture (KF Method)	ppm	1225	67	Before filtration
Total acid value	mgKOH/g	0.29	0.22	

Contamination level (Mass Method) mg/100ml 6.9 0.1 Malfunctions of hydraulic control valves are eliminated and

molding accuracy is increased. There is no need to replace oil: oil costs, the number of times of replacing solenoid valves and hydraulic pumps and personnel

costs are significantly reduced; there is no waste oil emission

Hydraulic oil for the hydraulic equipment (800 L tank)	
SRC-811-8V	
[The hydraulic equipment in the electric wire plant]	

[
	Unit	Before filtration	After filtration				
Kinematic viscosity (40°C)	mm²/s	30.71	30.73	Defens filmeti			
Moisture (KF Method)	ppm	11254	33	Before filtrati			
Total acid value	mgKOH/g	0.39	0.30				
Contamination level (Mass Method)	mg/100ml	122	0.1	Sec. 1			
* Oil used to be replaced frequently due to significant contamination.							

At present, however, there is no need to replace oil. Machinery failures ave decreased drastically, thus reducing maintenance personnel costs

* No oil replacement leads to drastic reduction of oil costs, the number of r eplacement of solenoid valves and hydraulic parts and personnel costs there is no waste oil emission

	Unit	Before filtration	After filtration
Kinematic viscosity (40°C)	mm²/s	137	136.7
Moisture (KF Method)	ppm	163	146
Total acid value	mgKOH/g	0.98	0.89
Contamination level (Mass Method)	mg/100ml	51.84	0.56

maintenance costs and personnel costs; there is no waste oil emissi Lubricating oil (12,000 L) for the paper-making machine bearing

	Unit	Before filtration	After filtration	
Kinematic viscosity (40°C)	mm²/s	224.9	222.1	
Moisture (KF Method)	ppm	3000	59	
Total acid value	mgKOH/g	0.35	0.34	
Contamination level (Mass Method)	mg/100ml	12.2	0.3	







"Miracle Boy" Installation/Operation





Lubricating oil for the sheet offset press (SRC-411-12V)



Turbine engine oil for the natural gas carrier (SRC-8112-70V)



Lubricating oil for the auto parts manufacturing process (SRC-814-15V)

Lubricating oil for the 75 kw screw compressor (SRC-813-C)



3



The followings are several installation/operation examples out of more than 2,000 cases:

Lubricating oil for the oil-free compressor (SRC-411-12V)



Geothermal plant turbine oil (SRC-8110-162V/-816-22V)





Refinery turbine lubricating oil (SRC-814-15V: explose



Paper mac lubricating hydraulic oil (SRC-816-22V



Lubricating oil for the 150 kw screw compressor (SRC-814-C)

Specifications for SRC Series

Main Specifications for Filtration Devices (SRC-V Series)

SRC-411-12V SRC-811-8V SRC-812-6V **Model** SRC-813-10V SRC-814-15V SRC-816-22V SRC-8110-162V Filtration flow rate (VG46) 180L/Hr 300L/Hr 600L/Hr 700L/Hr 900L/Hr 1,800L/Hr 3,000L/Hr 0.35MPa 0.35MPa 0.35MPa 0.35MPa 0.35MPa 0.35MPa 0.35MPa **Filtration pressure** Moisture removal rate (Max.) 2L 4L 8L 12L 16L 24L 40L Number of elements attached GE-21 (2 pcs)/GE-41 (1 pc) GE-21 (4 pcs)/GE-41 (2 pc) GE-21 (8 pcs)/GE-41 (4 pc) GE-21 (12 pcs)/GE-41 (6 pc) GE-21 (16 pcs)/GE-41 (8 pc) GE-21 (24 pcs)/GE-41 (12 pc) GE-21 (40 pcs)/GE-41 (20 pc **Pre-filter** Y-type, 60 meshes Pump relief valve Motor protection breaker Motor protection breake Pressure sensor Pressure sensor Pressure sensor Pressure sensor Pressure sensor Safety device Overload current sensor Phase adjusting circuit Phase adjusting circuit Overload protection circuit Overload protection circuit Emergency buzzer Emergency buzzer Emergency buzzer 0.75Kw Mounted motor 75w 0.2Kw 0.25Kw 0.25Kw 0.4Kw 0.75Kw × 2 motors Single-phase 100 V or three-phase 200 V three-phase 200 V Power supply Operation time meter Time counter Operation time meter Operation time meter Operation time integrator Pressure gauge IN side IN side IN side and the suction side IN side and the suction side IN side and the suction side IN. OUT and the suction sides IN. OUT and the suction sides PT1/4,PT1/4, no drain PT3/8.PT3/8.PT3/8 Connection diameter (IN/OUT/DRAIN) PT3/8.PT3/8.PT3/8 PT3/8 PT3/8 PT3/8 PT1/2.PT3/8.PT3/8 PT3/4.PT3/4.PT3/4 PT3/4.PT3/4.PT3/4 Outside dimension (mm) $W300 \times L265 \times H423$ $W270 \times L435 \times H768$ $W600 \times L305 \times H801$ W800 × L305 × H801 $W440 \times L700 \times H789$ $W530 \times L888 \times H1070$ W530 × L1238 × H1070 Weight 16 kg 31 kg 55 kg 70 kg 110 kg 125 kg 160 kg Working viscosity range Within 150 mm²/S Within 150 mm²/S Within 220 mm²/S Within 220 mm²/S Within 220 mm²/S Within 260 mm²/S Within 260 mm²/S Target liquid oil Mineral oil/synthetic oil Tank capacity Hydraulic oil 500 L/lubricating oil 300 L Hydraulic oil 1000 L/lubricating oil 600 L Hydraulic oil 2000 L/lubricating oil 1200 L Hydraulic oil 3000 L/lubricating oil 1800 L Hydraulic oil 4000 L/lubricating oil 2400 L Hydraulic oil 6000 L/lubricating oil 3600 L Hydraulic oil 10000 L/lubricating oil 6000 L Installation Stationary Stationary Stationar Stationary Stationar Stationary

Main Specifications for Filtration Devices SRC-V Series

(corresponding to screw compressors, scroll compressors, tooth compressors, etc)

*SRC-V Series correspond to reciprocating oil-free turbo compressors. *To enhance or improve the product, the specifications are subject to change without notice. *The followings are the standard models; if you need a high-capacity model or a special model, please consult us

SRC-811-C	SRC-812-C	SRC-813-C	SRC-814-C		SRC-815-C	SRC-816-C
200L/Hr	400L/Hr	600L/Hr	800L/Hr		1,000L/Hr	1,200L/Hr
Depending on the main unit (Max. 0.9 MPa)	Depending on the main unit (Max. 0.9 MPa)	Depending on the main unit (Max. 0.9 MPa)	Depending on the main unit (Max. 0.9 MPa)		Depending on the main unit (Max. 0.9 MPa)	Depending on the main unit (Max. 0.9 MPa)
4L	8L	12L	16L		20L	24L
GE-21 (4 pcs)	GE-21 (8 pcs)	GE-21 (12 pcs)	GE-21 (16 pcs)		GE-21 (20 pcs)	GE-21 (24 pcs)
Y-type, 60 meshes	Y-type, 60 meshes	Y-type, 60 meshes	Y-type, 60 meshes		Y-type, 60 meshes	Y-type, 60 meshes
Output: 37kw or less	Output: 55kw or less	Output: 75-90kw or less	Output: 110-160kw or less		Output: 170-210kw or less	Output: 220-250kw or less
None	None	None	None		None	None
Not required	Not required	Not required	Not required		Not required	Not required
Replenish 8 L when	Replenish 16 L when	Replenish 24 L when	Replenish 32 L when		Replenish 40 L when	Replenish 48 L when
replacing the element	replacing the element	replacing the element	replacing the element		replacing the element	replacing the element
IN and OUT sides	IN and OUT sides	IN and OUT sides	IN and OUT sides		IN and OUT sides	IN and OUT sides
PT3/8, PT3/8, PT3/8	PT3/8, PT3/8, PT3/8	PT3/8, PT3/8, PT3/8	PT3/8, PT3/8, PT3/8		PT3/4.PT3/4.PT3/4	PT3/4.PT3/4.PT3/4
$W255 \times L350 \times H725$	W565×L310×H725	W565×L310×H725	W460×L725×H770		W460×L725×H770	W460×L725×H770
15 kg	30 kg	40 kg	105 kg		115 kg	125 kg
Within 68 mm ² /S	Within 68 mm ² /S	Within 68 mm ² /S	Within 68 mm ² /S		Within 68 mm ² /S	Within 68 mm ² /S
Mineral oil/synthetic lubricating oil	Mineral oil/synthetic lubricating oil	Mineral oil/synthetic lubricating oil	Mineral oil/synthetic lubricating oil		Mineral oil/synthetic lubricating oil	Mineral oil/synthetic lubricating oil
Stationary	Stationary	Stationary	Stationary		Stationary	Stationary
	SRC-811-C 200L/Hr Depending on the main unit (Max. 0.9 MPa) 4L GE-21 (4 pcs) Y-type, 60 meshes Output: 37kw or less Output: 37kw or less None Not required Replenish 8 L when replacing the element IN and OUT sides PT3/8, PT3/8, PT3/8 W255 × L350 × H725 15 kg Within 68 mm ² /S Mineral oil/synthetic lubricating oil	SRC-811-CSRC-812-C200L/Hr400L/HrDepending on the main unit (Max. 0.9 MPa)Depending on the main unit (Max. 0.9 MPa)4L8LGE-21 (4 pcs)GE-21 (8 pcs)Y-type, 60 meshesY-type, 60 meshesOutput: 37kw or lessOutput: 55kw or lessNoneNoneNoneNoneNot requiredReplenish 16 L when replacing the elementIN and OUT sidesIN and OUT sidesPT3/8, PT3/8, PT3/8PT3/8, PT3/8, PT3/8W255 × L350 × H725W565×L310×H72515 kg30 kgWithin 68 mm²/SWithin 68 mm²/SMineral oil/synthetic lubricating oilMineral oil/synthetic lubricating oil	SRC-811-CSRC-812-CSRC-813-C200L/Hr400L/Hr600L/HrDepending on the main unit (Max. 0.9 MPa)Depending on the main unit (Max. 0.9 MPa)Depending on the main unit (Max. 0.9 MPa)4L8L12LGE-21 (4 pcs)GE-21 (8 pcs)GE-21 (12 pcs)Y-type, 60 meshesY-type, 60 meshesY-type, 60 meshesOutput: 37kw or lessOutput: 55kw or lessOutput: 75-90kw or lessNoneNoneNoneNot requiredNot requiredNot requiredReplenish 8 L whenReplenish 16 L whenReplenish 24 L whenreplacing the elementreplacing the elementreplacing the elementIN and OUT sidesIN and OUT sidesIN and OUT sidesPT3/8, PT3/8, PT3/8PT3/8, PT3/8, PT3/8PT3/8, PT3/8, PT3/8W255 × L350 × H725W565×L310×H725W565×L310×H72515 kg30 kg40 kgWithin 68 mm²/SWithin 68 mm²/SWithin 68 mm²/SMineral oil/synthetic lubricating oilMineral oil/synthetic lubricating oil	SRC-811-CSRC-812-CSRC-813-CSRC-814-C200L/Hr400L/Hr600L/Hr800L/HrDepending on the main unit (Max. 0.9 MPa)Depending on the main unit (Max. 0.9 MPa)Depending on the main unit (Max. 0.9 MPa)4L8L12L16LGE-21 (4 pcs)GE-21 (8 pcs)GE-21 (12 pcs)GE-21 (16 pcs)Y-type, 60 meshesY-type, 60 meshesY-type, 60 meshesY-type, 60 meshesOutput: 37kw or lessOutput: 55kw or lessOutput: 75-90kw or lessOutput: 110-160kw or lessNoneNoneNoneNoneNoneNot requiredNot requiredNot requiredNot requiredReplenish 8 L whenReplenish 16 L when replacing the elementReplenish 16 L when replacing the elementReplenish 24 L when replacing the elementIN and OUT sidesIN and OUT sidesPT3/8, PT3/8, PT3/8PT3/8, PT3/8, PT3/8PT3/8, PT3/8, PT3/8PT3/8, PT3/8, PT3/8W255 × L350 × H725W565×L310×H725W565×L310×H725W460×L725×H77015 kg30 kg40 kg105 kgWithin 68 mm²/SWithin 68 mm²/SWithin 68 mm²/SWithin 68 mm²/SMineral oil/synthetic lubricating oilMineral oil/synthetic lubricating oilMineral oil/synthetic lubricating oil	SRC-811-CSRC-812-CSRC-813-CSRC-814-C200L/Hr400L/Hr600L/Hr800L/HrDepending on the main unit (Max. 0.9 MPa)Depending on the main unit (Max. 0.9 MPa)Depending on the main unit (Max. 0.9 MPa)4L8L12L16LGE-21 (4 pcs)GE-21 (8 pcs)GE-21 (12 pcs)GE-21 (16 pcs)Y-type, 60 meshesY-type, 60 meshesY-type, 60 meshesY-type, 60 meshesOutput: 37kw or lessOutput: 55kw or lessOutput: 75-90kw or lessOutput: 110-160kw or lessNoneNoneNoneNoneNoneNot requiredNot requiredNot requiredNot requiredReplenish 8 L when replacing the elementReplenish 24 L when replacing the elementReplenish 24 L when replacing the elementReplenish 23 L when replacing the elementIN and OUT sidesIN and OUT sidesIN and OUT sidesIN and OUT sidesIN and OUT sidesPT3/8, PT3/8PT3/8, PT3/8PT3/8, PT3/8PT3/8, PT3/8W255 × L350 × H725W565×L310×H725W565×L310×H725W460×L725×H77015 kg30 kg40 kg105 kgWithin 68 mm²/SWithin 68 mm²/SWithin 68 mm²/SMineral oil/synthetic lubricating oilMineral oil/synthetic lubricating oilMineral oil/synthetic lubricating oil	SRC-811-CSRC-812-CSRC-813-CSRC-814-CSRC-814-C200L/Hr400L/Hr600L/Hr800L/Hr00L/Hr1,000L/HrDepending on the main unit (Max.09 MPa)Depending on the main unit (Max.09 MPa)Depending on the main unit (Max.09 MPa)Depending on the main unit (Max.09 MPa)4L8L12L16L20LGE-21 (4 pcs)GE-21 (8 pcs)GE-21 (12 pcs)GE-21 (16 pcs)GE-21 (20 pcs)Y-type, 60 meshesY-type, 60 meshesY-type, 60 meshesY-type, 60 meshesY-type, 60 meshesOutput: 37kw or lessOutput: 55kw or lessOutput: 75-90kw or lessOutput: 110-160kw or lessOutput: 170-210kw or lessNoneNoneNoneNoneNoneNoneNot requiredNot requiredNot requiredNot requiredReplenish 32 L when replacing the elementReplenish 24 L when replacing the elementReplenish 32 L when replacing the elementReplenish 32 L when replacing the elementIN and OUT sidesIN and OUT sidesIN and OUT sidesPT3/8, PT3/8,









SRC-816-22V



SRC-811-C

"Miracle Boy" has been highly received by our worldwide customers (in the US, Korea, Thailand, Malaysia, etc.)



construction machinery





*To enhance or improve the product, the specifications are subject to change without notice. *The followings are the standard models; if you need a high-capacity model or a special model (explosion-proof, outdoor, transportable, etc.), please consult us. *Since we also offer the filtration devices for the diesel engines "SRC-VG Series", please contact us. *These specifications are for Japan only. If you need specifications for overseas, please contact us

SRC-8112-70V	SRC-8118-223V	SRC-8124-224V
3,600L/Hr	5,400L/Hr	7,200L/Hr
0.35MPa	0.35MPa	0.35MPa
48L	72L	96L
GE-21 (48 pcs)/GE-41 (24 pc)	GE-21 (72 pcs)/GE-41 (36 pc)	GE-21 (96 pcs)/GE-41 (48 pc)
Y-type, 60 meshes	Y-type, 60 meshes	Y-type, 60 meshes
Pump relief valve	Pump relief valve	Pump relief valve
Motor protection breaker	Motor protection breaker	Motor protection breaker
Pressure sensor	Pressure sensor	Pressure sensor
Phase adjusting circuit	Phase adjusting circuit	Phase adjusting circuit
Overload protection circuit	Overload protection circuit	Overload protection circuit
Emergency buzzer	Emergency buzzer	Emergency buzzer
2.2Kw	$0.75 Kw \times 3 motors$	$0.75 \text{Kw} \times 4 \text{ motors}$
three-phase 200 V	three-phase 200 V	three-phase 200 V
Operation time meter	Operation time meter	Operation time meter
Operation time integrator	Operation time integrator	Operation time integrator
IN, OUT and the suction sides	IN, OUT and the suction sides	IN, OUT and the suction sides
PT1.PT1.PT1	PT1.PT1.PT1	PT1.PT1.PT1
$W1050 \times L1038 \times H1170$	$W530 \times L888 \times H1070(3)$	$W530 \times L888 \times H1070(4)$
250 kg	375 kg	500 kg
Within 260 mm ² /S	Within 260 mm ² /S	Within 260 mm ² /S
Mineral oil/synthetic oil	Mineral oil/synthetic oil	Mineral oil/synthetic oil
Hydraulic oil 12000 L/lubricating oil 7200 L	Hydraulic oil 18000 L/lubricating oil 11000 L	Hydraulic oil 24000 L/lubricating oil 15000 L
Stationary	Stationary	Stationary



"Miracle Boy" is widely applied both at home and abroad!

•Hydraulic equipment, injection molding machines, extruding machines, granulators, kneading machines, rubber/tire vulcanizers

•Rolling machines, forging machines, die-casting machines, automatic welding machines, forging/hydraulic press machines

 Machine tools, metal processing facilities, wire processing/wiredrawing machines, diesel engines (generators/small boats) •Private turbine generators, power plant equipment

Boats and ships (turbines, steering gears, winches, hatches)

·Paper-making machines (pulpers, pulping vessels, presses, dryers, coaters, calendars, winders), fiber manufacturing machines

Chemical plant equipment, farm machines, port cargo handling machines,

•Food processing machines, packaging machinery, printing machines (offset printing, web presses, gravure printing)