

**BACK**

**E**

**WASHING EQUIPMENT**



## “NIAGARA MATE” URBAN OASIS CAR WASH SYSTEM



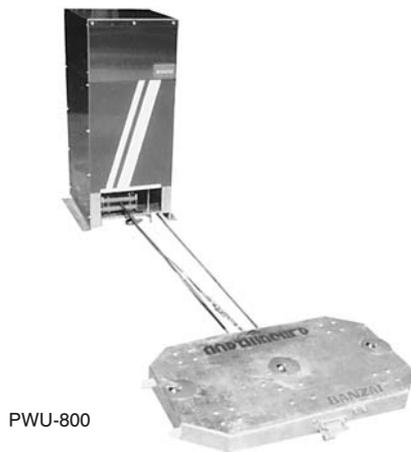
Description	Niagara Mate
Model	<b>N-M</b>
No. of brush	5 pcs.
Control	Computerized control
Drying equipment	Blower (2 sets)
Chemical	Wax cleaner (NWC), Foaming (NF), WAX (NW)
Applicable vehicle	Light, passenger, wagon, mini van, 1 Box
Maximum size	Width: 2200mm Height: 2200mm Length: 5050mm
Machine dimension	Width: 3620mm Height: 2815mm Length: 2880mm
Weight	Approx.2000kg
Rail length	8350mm
Rail width	3200mm
Safety device	Height detector, top nozzle sensor, top brush sensor, sidebrush sensor (Limit switch)
Top brush motor	3ph 0.4kw × 1 (Geared motor)
Top nozzle motor	3ph 0.2kw × 1 (Worm gear w / brake, inverter control)
Side brush motor	3ph 0.4kw × 2 (Geared motor)
Locker brush motor	3ph 0.3kw × 2 (Geared motor)
Equipment running motor	3ph 0.1kw × 2 (Worm gear w / brake, inverter control)
Blower motor	3ph 3.7kw × 2
Pump	Water pump (3ph 0.75kw) × 1 (In water tank)
Minimum washing time	145sec. (at 4.5m length vehicle 1 round wash mode)
Using water volume	70L (at 1 round wash mode)
Air	0.6 – 0.8Mpa
Power	3ph 7.8kw (8.55kw when built in compressor type)

## “NIAGARA FUSION” URBAN OASIS CAR WASH SYSTEM

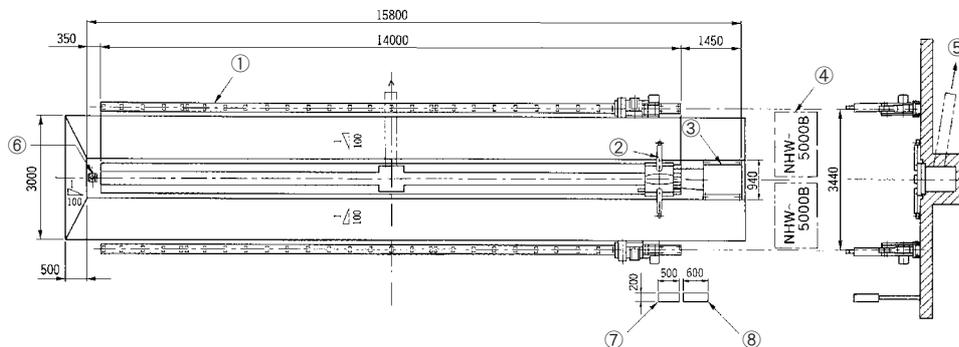


Description	Niagara Fusion
Model	<b>N-F</b>
No. of brush	5 pcs.
Control	Computerized control
Drying equipment	Blower (2 sets)
Chemical	Star Wax
Applicable vehicle	Light, passenger, wagon, mini van, 1 Box
Maximum size	Width: 2200mm Height: 2200mm Length: 5050mm
Machine dimension	Width: 3620mm Height: 2815mm Length: 2600mm
Weight	Approx.2000kg
Rail length	8350mm
Rail width	3200mm
Safety device	Height detector, top nozzle sensor, sidebrush sensor (Limit switch)
Top brush motor	3ph 0.4kw × 1 (Geared motor)
Top nozzle motor	3ph 0.2kw × 1 (Worm gear w / brake, inverter control)
Side brush motor	3ph 0.4kw × 2 (Geared motor)
Locker brush motor	3ph 0.3kw × 2 (Geared motor)
Equipment running motor	3ph 0.1kw × 2 (Worm gear w / brake, inverter control)
Blower motor	3ph 3.7kw × 2
Pump	Water pump (3ph 0.75kw) × 1 (In water tank)
Minimum washing time	110sec. (at 4.7m length vehicle)
Using water volume	80L / unit
Air	0.6 – 0.8Mpa
Power	3ph 8.0kw (8.75kw when built in compressor type)

## UNDER BODY WASHER



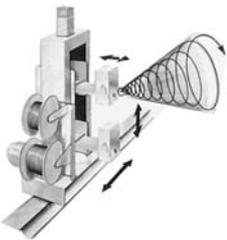
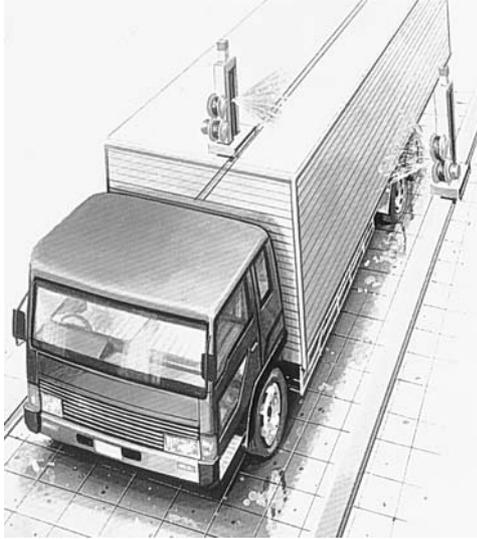
Drawing of standard installation for PWU-950VSN (In case with side body washing device)



- ① Rail for side body washing device
- ② Under body washing device (PWU-950VSN)
- ③ Control box
- ④ Hot water car washer (Generator)
- ⑤ Drain
- ⑥ Wire turn
- ⑦ Control panel for under body washing device
- ⑧ Control panel for side body washing device

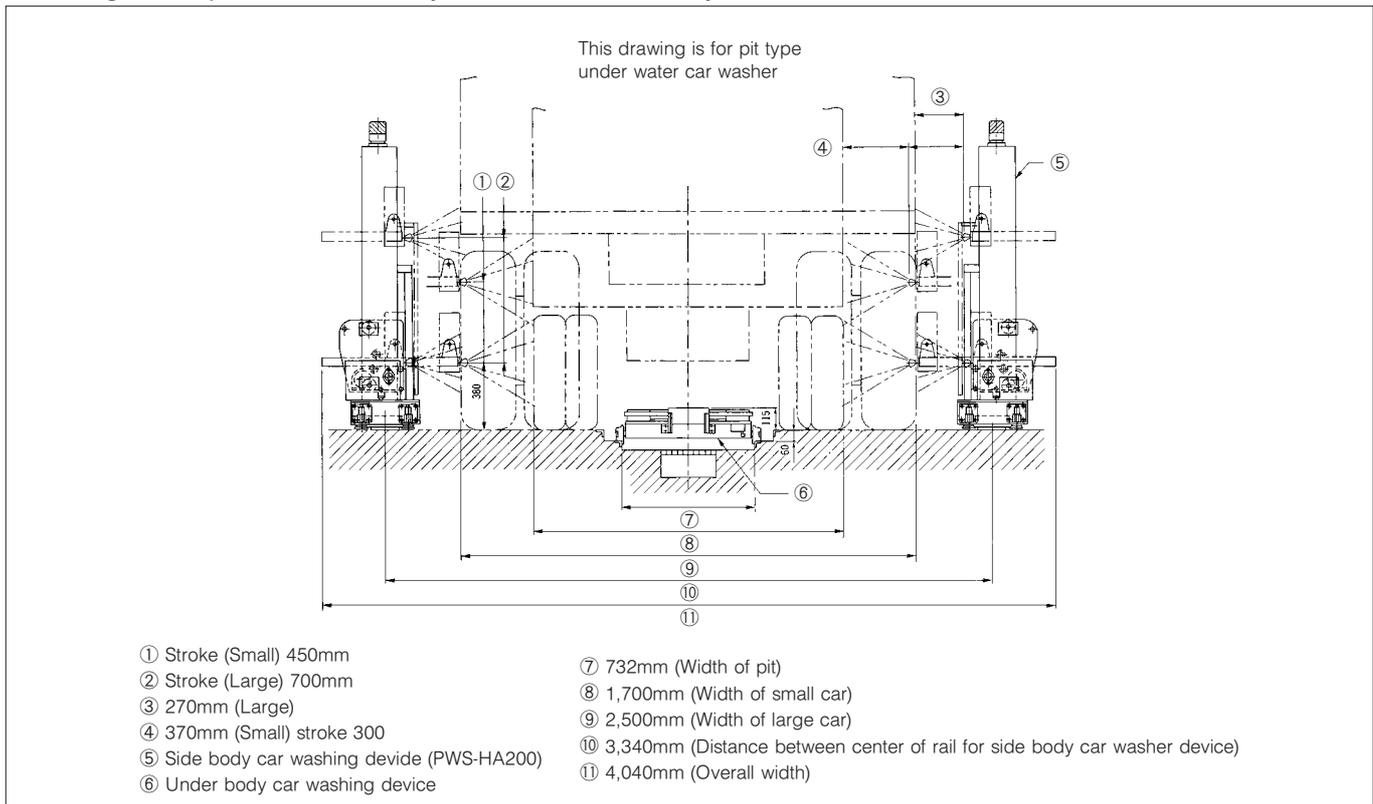
Model		PWU-800	PWU-950VSN
Applicable for		Small vehicle	Small & large vehicle
Overall Length of Installation	mm	7,160	15,800
Motor	kW	1	0.36
Discharge Volume	ℓ /min.(ℓ/h)	25 (1,500)	33 × 2 (4,000)
Discharge Pressure	MPa	8	8
Air Pressure	MPa	—	More than 0.5
Speed of Travelling	m/min.	0.6	0.8 – 4.2
Warm-water Car Washer (Generator) * Option		More than 7.84MPa 1,500 ℓ/h	7.84MPa} × 2units or 7.84MPa} × 1unit 2,000 ℓ/h}

## SIDE BODY WASHER



Model	PWS-HA200
Applicable for	2t – Large vehicle (12m)
Motor (3-ph.)	For travelling 0.2kW × 2 For up-down 0.2kW × 2 For revolution of nozzle 0.06kW × 2
Speed of Travelling m/min.	Low (Auto) 0.8 Middle (Auto) 1.2 High (Hand-operate)
- Max. Height of Nozzle mm - Min. Height of Nozzle mm - Distance fo Nozzle Travelling mm	From ground 1,080 From ground 380 700
Dimensions (H × W × D) mm	1,720 × 1,390 × 530
Warm-water Car Washer (Generator) * Option	7.84MPa } × 2units 2,000 ℓ /h } or 7.84MPa } × 1unit 5,000 ℓ /h }

- Drawing for the position of side body car washer, under body car washer and vehicle.



## NICE HOT REVOLUTION (HOT WATER CAR WASHER)



Model		CWH-R16V
Discharge Pressure	MPa	Approx. 10
Discharge Volume	ℓ/h	Approx. 900
Water Temperature	°C	Max. 80
Pump Type		3-joint Plunger
Fuel		Kerosene
Fuel Tank Capacity	ℓ	18
Hot Water Reservoir	ℓ	Approx. 12.6
Dimensions (W × D × H)	mm	1,067 × 720 × 1,030
Motor Capacity	kW	3-ph., 2.2
Fuel Consumption	ℓ/h	Approx. 5
Weight	kg	Approx. 110
Standard Accessories		Stop Gun with Nozzle, Water Hose 4m, High-pressure water hose 10m, Quick Coupler, Autoheater,

## HOT WATER CAR WASHER



Model		NHW-1500GS	NHW-2000GS
Discharge Pressure	MPa	Approx. 8	Approx. 8
Discharge Volume	ℓ/h	Approx. 1,500	Approx. 2,000
Water Temperature	°C	Max. 80	Max. 80
Fuel		Kerosene	Kerosene
Fuel Tank Capacity	ℓ	40	40
Hot Water Reservoir	ℓ	Approx. 12.6 × 2	Approx. 12.6 × 2
Dimensions (W × D × H)	mm	885 × 730 × 1,145	885 × 730 × 1,145
Motor Capacity	kW	3-ph., 3.7	3-ph., 5.5
Fuel Consumption	ℓ/h	Approx. 5 × 2	Approx. 5 × 2
Weight Approx.	kg	Approx. 210	Approx. 220

# WASHING EQUIPMENT

## NICE HOT WASHER



Model	KHW-1100	KHW-1300	KHW-1600B	KHW-2100
Water Temperature	Max. 80°C			
Discharge Volume ℓ/h	Approx. 1,000	Approx. 1,150	Approx. 1,500	Approx. 2,000
Discharge Pressure MPa	Approx. 9	Approx. 10	Approx. 8	
Pump	3-joint Ceramic Plunger Pump			
Fuel / Tank Capacity	Kerosene / 18L		Kerosene / 40L	
Motor kW	2.2	3.7	3.7	5.5
Fuel Consumption ℓ/h	6.5	5.9	8.4	12.4
Dimension (W×D×H) mm	820×635×1,085	1,215×830×1,185		1,005×780×1,175
Weight kg	115	180	195	230

## NICE HOT STRONG/SUPER STRONG (HOT WATER CAR WASHER)



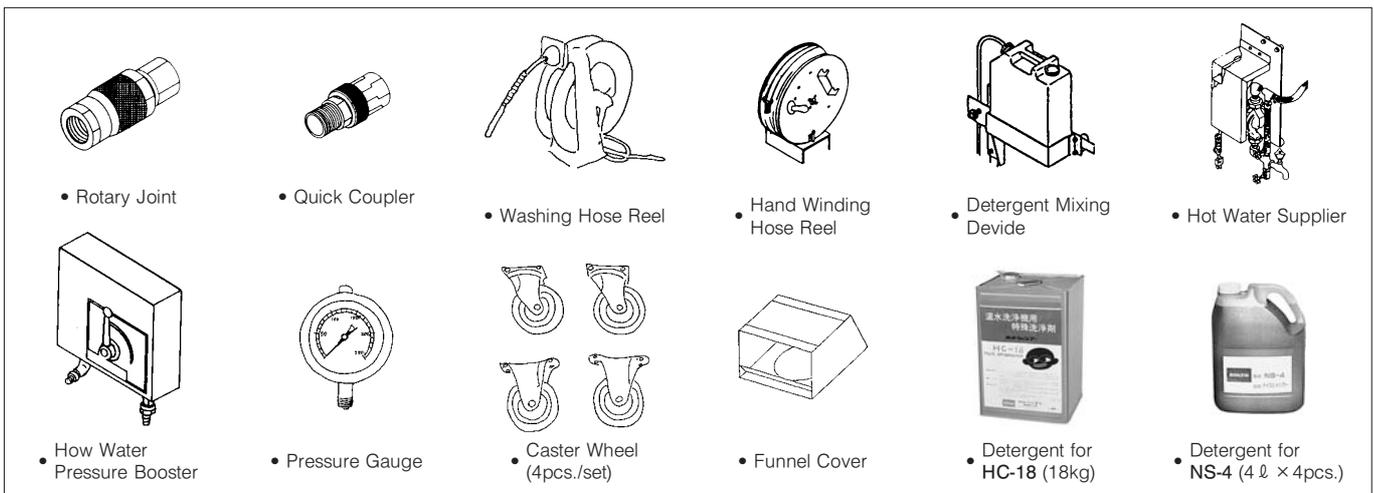
Model	NHW-3000E	NHW-5000E
Water Temperature °C	Max. 80	Max. 80
Discharge Volume (No load) ℓ/h	Approx. 2,800	Approx. 5,000
Discharge Pressure MPa (Equipped pressure adjusting device)	3.92 – 6.86	3.92 – 6.86
Pump	3-joint Ceramic Plunger Pump	
Fuel	Kerosene	
Motor kW	3-ph., 7.5	3-ph., 11
Fuel Consumption ℓ/h	Approx. 15×2	
Fuel Tank Capacity ℓ	Approx. 40×2	
Dimensions (W×D×H) mm	1,650×1,000×1,380	
Weight kg	Approx. 490	Approx. 550

## HOT WATER CAR WASHER



Model	NHW-1000GS	
Water Temperature	° C	Max. 80
Discharge Volume	ℓ /h	Approx. 900
Discharge Pressure	MPa	Approx. 10
Pump	3-joint Plunger Pump	
Fuel - Fuel Tank	Kerosene - 18 ℓ	
Motor Capacity	kW	3-ph., 2.2
Fuel Consumption	ℓ /h	Approx. 5
Boiler Tank Capacity	ℓ	Approx. 12.6
Dimensions (W×D×H)	mm	740×580×1,040
Weight	kg	Approx. 110

## PARTS FOR CAR WASHER



Please note that there is some unapplicable parts for your washer.

## HIGH PRESSURE CAR WASHER



Model	CW-7	
Discharge Volume (No Load)	ℓ /h	1,500
Discharge Pressure	MPa	9.8
Pump	3-joint Ceramic Plunger Pump	
Motor	kW	3-ph., 5.5
Water Tank	ℓ	7.8
Method of Supply Detergent	Auto-suction method	
Detargent Tank Capacity	ℓ	18
Dimensions (W×D×H)	mm	886×589×943
Weight	kg	Approx. 150

# WASHING EQUIPMENT

## WATER HOSE REEL



It's possible to discharge two types of water of jet flow and normal flow. They can be stopped and switched by one-touch operation of knob of gun type nozzle. You can save water as a result.

Model	<b>SD-15B</b>	
Hose Length	m	15
Composition	Drum with Hose Gun	
Optional Parts	Injection Nozzle for Radiator Water Hose 10, 15, 20, 60m	

## WATER HOSE REEL



Model	Hose Size
<b>SR-N10C</b>	13 $\phi$ × 10m
<b>SR-S10</b>	12 $\phi$ × 10m
<b>SR-4W10</b>	11.2 $\phi$ × 10m
<b>SR-4W15</b>	11.2 $\phi$ × 15m
<b>SWR-410P</b>	12.7 $\phi$ × 10m
<b>SWR-415P</b>	12.7 $\phi$ × 15m

**SR-S10** is saving water type, **SWR** type is equipped a gan.

## HOT WATER HOSE REEL



Model	Hose Size
<b>SOH-210P</b> <b>SOH-215P</b>	$\phi$ 6.3 × 10m $\phi$ 6.3 × 15m
<b>SOH-310P</b> <b>SOH-315P</b>	$\phi$ 9.5 × 10m $\phi$ 9.5 × 15m

• Joint hose 1.5m and hose connector are equipped.

Model	Hose Size	Hose Connection
<b>SR-2WH10</b> <b>SR-2WH15</b>	$\phi$ 6.3 × 10m $\phi$ 6.3 × 15m	RC $\frac{1}{4}$ RC $\frac{1}{4}$
<b>SR-3WH10</b> <b>SR-3WH15</b>	$\phi$ 9.5 × 10m $\phi$ 9.5 × 15m	RC $\frac{3}{8}$ RC $\frac{3}{8}$

## AUTO PARTS WASHER



L-510CM-ST



L-600TB

Model		L-510CM-ST	L-600	L-600TB
Bucket, Inner Size	mm	φ 500 × 60H	φ 630 × 150H	φ 600 × 150H
Applicable Size	mm	φ 480 × 225H	φ 620 × 280H	φ 590 × 400H
Applicable Weight	kg	60	80	80
Electric Power Consumption	kW	4	7	7
Electric Current	A	12	25	25
Pump Motor	kW	3-ph., 1.5	3-ph., 2.2	3-ph., 2.2
Heater	kW	2	4	4
Pump Capacity	MPa × ℓ /min.	0.29 × 200	0.29 × 250	0.3 × 250
Washing Liquid Tank Capacity	ℓ	Approx. 50	Approx. 100	Approx. 85
Material of Tank and Washing Room		Stainless Steel	Stainless Steel	Stainless Steel
Timer	min.	5 – 30	5 – 30	5 – 30
Thermostat	° C	30 – 80	30 – 80	30 – 80
Drainage		Drain Valve and Drain Cap	Pumping Drain	Pumping Drain (Option)
Q'ty of Nozzle Hole	pcs.	20	44	46
Dimensions (W × D × H)	mm	800 × 630 × 900	940 × 770 × 980	830 × 920 × 1,135
Weight	kg	115	155	170
Safety Device		Leakage Braker and Discharging Limit Switch		Leakage Braker, Discharging Limit Switch, Covering Lid Lock and Gas Damper

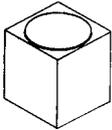
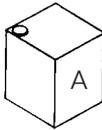
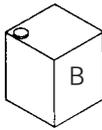
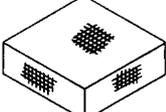
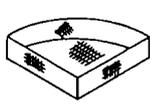
# WASHING EQUIPMENT

## AUTO PARTS WASHER



Model		L-800	L-1000
Bucket, Inner Size	mm	φ 830 × 150H	φ 1,020 × 150H
Applicable Size	mm	φ 800 × 400H	φ 1,000 × 700H
Applicable Weight	kg	120	140
Electric Power Consumption	kW	8	10
Electric Current	A	27	32
Pump Motor	kW	3-ph., 3.7	3-ph., 5.5
Heater	kW	3-ph., 4	3-ph., 4 × 2
Pump Capacity	MPa × ℓ /min.	0.34 × 330	0.39 × 400
Washing Liquid Tank Capacity	ℓ	150	200
Material of Tank and Washing Room		Stainless Steel	Stainless Steel
Timer	min.	5 – 30	5 – 30
Thermostat	° C	30 – 80	30 – 80
Drainage Drain Valve		Drain Valve and Drain Cap	Drain Valve and Drain Cap
Q'ty of Nozzle Hole pcs.		48	59
Dimensions (W × D × H)	mm	1,180 × 1,020 × 1,170	1,550 × 1,300 × 1,175
Weight	kg	250	580
Safety Device		Leakage Braker, Discharging Limit Switch, Covering Lid Lock and Gas Damper	Leakage Braker, Washing Level Sensor and Safety Breaker

## PARTS FOR AUTO PARTS WASHER

<p>New Power Soap</p>  <p>PS-4N (2kg × 2 Bags)</p>	<p>New Power Soap</p>  <p>PS-15N (15kg/Can)</p>	<p>Predisposal Chemical for New Power Soap</p>   <p>YC-A Setting Support Liquid (20kg)      YC-B Setting Liquid (18kg)</p>	
<p>Disc Plate Stand</p>  <p>For L-600T</p>	<p>Basket A for Small Parts Cleaning</p>  <p>For L-800, L-1000</p>	<p>Basket B for Small Parts Cleaning</p>  <p>For L-600T</p>	<p>Basket C for Small Parts Cleaning</p>  <p>For L-800, L-1000</p>

## PARTS WASHING STAND



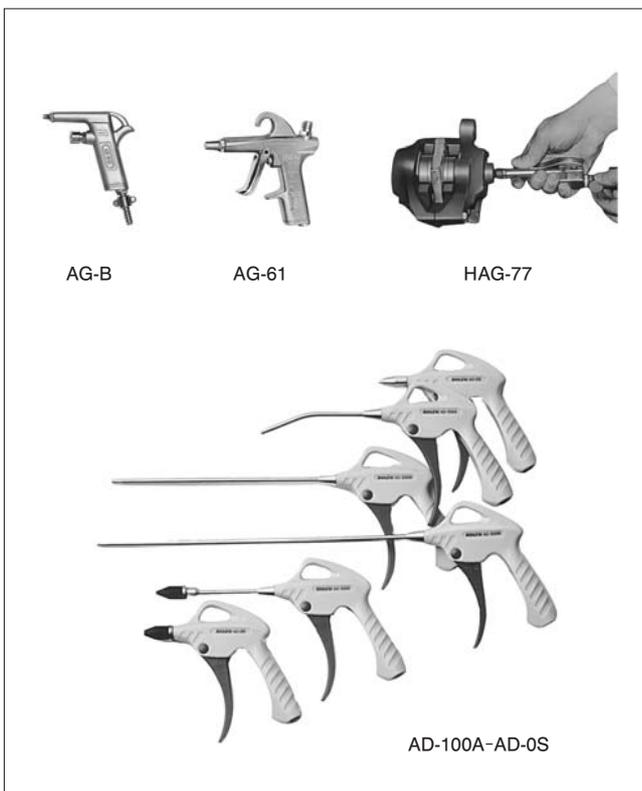
Model		WS-15G	WS-25B	WS-50B
Motor Capacity	W	1-ph., 40	1-ph., 200	1-ph., 200
Tank Capacity	ℓ	Oil 35 Water 27 } 62	Oil 55 Water 45 } 100	Oil 90 Water 87 } 177
Discharge Volume	ℓ/min.	12	14	14
Dimensions (H×W×D)	mm	1,150×960 ×590	1,270×970 ×690	1,470×1,530 ×700
Weight	kg	43	72	90

## ENGINE CLEANING GUN



Model	Length mm	Weight g	Remarks
<b>HG-88</b>	430	300	with Hose, 1m
<b>EC-3B</b>	430	400	with Hose, 1m
<b>HWG-90</b>	450	350	with Hose, 1m, Usable as Air Gun

## AIR BLOW GUN



### • Air Gun

Model	Overall Length mm	Remarks
<b>AG-B</b>	175	Popular Type
<b>AG-6</b>	130	Hose position: Lower part
<b>AG-61</b>	130	Hose position: Upper part
<b>AP-1400</b>	1,400	Suitable for far place
<b>HAG-77</b>	160	with Air Transformer
<b>PAG 2</b>	158	with Short Nozzle

### • Air Duster

Model	Overall Length mm	Remarks
<b>AD-100A</b>	242	Nozzle 25°
<b>AD-200N</b>	342	Nozzle 200mm
<b>AD2-300N</b>	442	Nozzle 300mm
<b>AD2-0R</b>	155.5	Rubber Nozzle
<b>AD-100R</b>	227	Long Rubber Nozzle
<b>AD-OS</b>	155.5	Safety Nozzle

## MAT CLEANER



Model		MC-6001D-S
Motor Capacity	kW	1-ph., 0.25
Capacity of Mat Size	mm	Width 700, Thickness 25
Brush Dia.	mm	φ 108
Sliding Speed	m/min.	5.6 (50Hz)
Water Supply	ℓ /min.	more 10 (1-5kgf/cm <sup>2</sup> )
Dimensions (W × D × H)	mm	1,030 × 720 × 1,250
Weight	kg	Approx. 84
Standard Accessory		Drain Hose 0.8m

## DRY & WET MAT CLEANER



In addition to rubber mat cleaning, carpet mat can be cleaned-up without getting wet.

Dry or wet mode can be switches by one-touch operation.

Model		MC-7001-DW
Power Source		1-ph.
Electric Power Consumption	W	Blower 800, Motor 400
Capacity of Mat Size	mm	Max. width 600
Brush Dia.	mm	φ 108
Sliding Speed	m/min.	6.7 (50Hz)
Drain Pipe Dia.	mm	1 ½B (Hose inner dia. φ 45)
Water Intake Dia.	mm	½B (Hose inner dia. φ 15)
Water Supply	ℓ /min.	10 (Wet mode)
Filter Size	mm	φ 250 × 270 (for dry)
Dimensions (W × D × H)	mm	1,418 × 570 × 1,130
Weight	kg	130

### • Optional Parts for Mat Cleaner

Coldproof Cover

**MC-CV-N** (for MC-6001B/6002B)

**MC-CV-DW** (for MC-7001-DW)

Coldproof Heater

**MC-H-N** (for MC-6001B)

**MC-H-2N** (for MC-6002B)

**MC-H-DW** (for MC-7001-DW)

## ASHTRAY WASHER



Model		AC-3
Air Pressure	MPa(kgf/cm <sup>2</sup> )	0.69 – 1.37 (7 – 14)
Water Supply Tank	ℓ	5
Drain Tank	ℓ	8
Dimensions (W × D × H)	mm	345 × 450 × 1,020
Weight	kg	15.5