

5A SERIES

MODULAR Electric Motor Hot Water Pressure Washer

5A series equip with 5.5-7.5KW 4pole electric motor and stainless steel base. Heavy duty brass forged triplex pump, joint coupled 6 Pole low speed motor for continuously usage. DBE type burner assy, full stainless steel construction. Microelectronic ignition and temp. limiting system. Key switch burning control, remote control for optional. 304 Stainless steel mounting base. Modular design able to use as multiple parallel combination.



MODEL	DHCF-16/155A-5.5T6	DHCF-16/235A-7.5T6
Max Pressure	2300Psi / 160Bar	2300Psi / 160Bar
Rated Flow	4.5Gpm / 15lpm	6.1Gpm / 23lpm
Pump Model	DBF-18218, Joint Coupling Triplex	DBF-22218, Joint Coupling Triplex
Power And Type	5.5KW, 380V/50HZ, 6Pole	7.5KW, 380V/50HZ, 6Pole
Outlet Water TEMP.	90°C/194°, Limited 140°C/284°F	90°C/194°, Limited 140°C/284°F
Burner Type	DBE Burner Assy, 7.5L/H	DBE Burner Assy, 9.5L/H
Shipping Size	105x48.5x19cm	105x48.5x19cm
Shipping Weight	360kgs	360kgs

FBT2V SERIES

4000PSI FIRE BOX High Pressure Water Heater

FB series equip with full 12V ignition system and 72A/H battery for pressure washer plug in hot water mobile washing.

DBE type burner assy, install with DC12V fan motor, 25 Liter fuel tank, oil level indicator, fuel filter. Microelectronic ignition and temp. limiting system. Key switch burning control, burning indicator light. 12V-72A/H battery, with level display and recharge port. Power coating frame with top protection covers. 10inch solid wheel and 4inch swivel castor with brake.



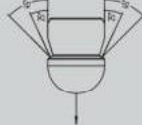
FEATURES



MODEL	DHA-FBT2V
Max Pressure	4000Psi / 275Bar
Rated Flow	6.5Gpm / 25lpm
Outlet Water TEMP.	90°C/184°, Limited 140°C/284°F
Burner Type	DBE Burner Assy, 12.6L/H
Battery	12V / 72A/H
System Voltage	DC12V
Shipping Size	80x70x87cm
Shipping Weight	150kgs

Jetting Nozzle Angles of Incidence (or rear jet angle)

The angle of the rear jet affect the nozzle's ability of cleaning force (against the pipe wall) and thrust (propel itself in the pipeline). The bigger the rear jet angle is, the greater cleaning force produces, but it will reduce the thrust. Conversely, narrow jet angles propel the nozzle at the expense of cleaning ability. For this reason, using both nozzles for each job would be more efficient.



JDB Standard Drilled Ball Type Nozzle

Stainless steel 420, heat treatment, drilled, option orifice. Use for general drain jetting. Applicable: 30-200mm Max Pressure: 4000Psi / 275Bar



MODEL	Inlet	Front Jet	Rear Jet	Orifice	Size	Weight
JDB3-1/8	1/8" F	Optional	3 x 1/8"	2.12x5.1A	19x21	28g
JDB3-1/4	1/4" F	Optional	3 x 1/8"	2.12x5.1A	26x25	36g
JDB3-3/8	3/8" F	Optional	4 x 1/8"	3.16x6.72	25x28	55g
JDB3-1/2	1/2" F	Optional	6 x 1/8"	5.14x10.18	30x35	98g

JJB Standard Insert Bullet Type Nozzle

Stainless steel 420, heat treatment, standard M6 insert. Use for general drain jetting. Applicable: 80-200mm Max Pressure: 4000Psi / 275Bar



MODEL	Inlet	Front Jet	Rear Jet	Insert	Size	Weight
JJB3-1/8	3/8" F	1x 0"	3 x 1/8"	M6A	39x51	282g
JJB3-1/2	1/2" F	1x 0"	3 x 1/8"	M6A	39x51	282g
JJB4-3/8	3/8" F	1x 0"	4 x 1/8"	M6A	39x51	282g
JJB4-1/2	1/2" F	1x 0"	4 x 1/8"	M6A	39x51	282g

JDS Standard Fast Rotating Type Nozzle

Heat treatment 420 booster, drilled, bronze motor with two 90° rotating jet. Use for drain inwall cleaning. Applicable: 50-100mm Max Pressure: 4000Psi / 275Bar



MODEL	Inlet	Self Rotating	Rear Jet	Orifice	Size	Weight
JDS3-1/8	1/8" F	1x 0°/2x90°	0.3x20"	3.8x7.18	22x41	90g
JDS3-1/4	1/4" F	1x 0°/2x90°	0.3x20"	3.8x7.18	22x41	90g
JDS3-3/8	3/8" F	1x 0°/2x90°	0.3x20"	3.8x7.18	24x41	92g

JDP Standard Drilled Bullet Type Nozzle

Stainless steel 420, heat treatment, drilled, option orifice. Use for general drain jetting. Applicable: 30-200mm Max Pressure: 4000Psi / 275Bar



MODEL	Inlet	Front Jet	Rear Jet	Orifice	Size	Weight
JDP3-1/8	1/8" F	1x 0"	3 x 1/8"	3.73x6.12	18x25	25g
JDP3-1/4	1/4" F	1x 0"	3 x 1/8"	3.73x6.12	22x30	40g
JDP3-3/8	3/8" F	1x 0"	4 x 1/8"	4.78x8.14	25x35	69g
JDP3-1/2	1/2" F	1x 0"	6 x 1/8"	6.58x11.36	35x40	115g

JIB Standard Insert Ball Type Nozzle

Stainless steel 420, heat treatment, standard M6 insert. Use for general drain jetting. Applicable: 80-200mm Max Pressure: 4000Psi / 275Bar



MODEL	Inlet	Front Jet	Rear Jet	Insert	Size	Weight
JIB3-1/8	3/8" F	Optional	3 x 3/8"	M6A	39x40	246g
JIB3-1/2	1/2" F	Optional	3 x 3/8"	M6A	39x40	246g
JIB4-3/8	3/8" F	Optional	4 x 3/8"	M6A	39x40	246g
JIB4-1/2	1/2" F	Optional	4 x 3/8"	M6A	39x40	246g

JTP Rear Boost Front Rotating Nozzle

With front rotating jet nozzle to break block's quickly, rear boost to thrust nozzle in the pipe. Standard M6 insert. Use for quick unblocking rods and FUG blockage. Applicable: 50-100mm Max Pressure: 4000Psi / 275Bar



MODEL	Inlet	Front Jet	Rear Jet	Insert	Size	Weight
JTP3-1/4	1/4" F	Rotating	3x25"	M6	30x10	334g
JTP3-3/8	3/8" F	Rotating	3x25"	M6	30x10	334g

Jetting Hose Applicable

The high pressure water travels in the pipe and will lose the pressure due to the friction, there is a certain amount of pressure loss will occur depending on the size and length of the hose, so pressure loss is a combination of the hose length and its diameter. The pressure loss will be greater as the hose diameter decreases, and the length increases.

Inspect The Pipeline Before Cleaning

Before cleaning the sewer pipeline should be inspected to determine the type of blockage and amount of debris to be removed. Determine about the type of debris (loose or attached, large or small, hard or soft), size of pipe, pipe material, Structural condition, length of section, slope of pipe, will help to choose the correct nozzle.

JIE Egg Type Nozzle

Stainless steel 420, heat treatment, standard M6 insert. Use for general drain jetting. Applicable: 80-600mm Max Pressure: 4000Psi / 275Bar



MODEL	Inlet	Front Jet	Rear Jet	Insert	Size	Weight
JIE5-3/8	3/8" F	1/2" N/M	5/8" Ø	M6	38x61	0.31kg
JIE6-1/2	1/2" F	1/2" N/M	6/32" Ø	M6	48x78	0.65kg
JIE6-3/4	3/4" F	1/2" N/M	6/32" Ø	M6	64x100	1.63kg
JIE8-1	1" F	1/2" N/M	8/32" Ø	M6	68x110	1.7kg
JIE8-15/16	1-1/16" F	1/2" N/M	10/32" Ø	M6	75x110	1.86kg

JICP Chisel Head Type Nozzle

420 heat treatment, the drill tip deeply penetrates the blockage and water jets loosen blocking material and wash it to the rear. Use for total blockage. Applicable: 150-600mm Max Pressure: 4000Psi / 275Bar



MODEL	Inlet	Front Jet	Rear Jet	Insert	Size	Weight
JPC5-3/8	3/8" F	1/2" x 3/16"	5/8" Ø	Ø11x12.20	25x40	70g
JPC5-1/2	1/2" F	1/2" x 3/16"	5/8" Ø	M6	41x65	0.34kg
JPC5-3/4	3/4" F	1/2" x 3/16"	6/32" Ø	M6	52x85	0.73kg
JPC6-1	1" F	1/2" x 3/16"	6/32" Ø	M6	65x110	1.4kg

JRM Fast Rotating Milling Head Nozzle

Stainless steel body, ceramic coating rotating shaft, head install with standard milling blades, replaceable. Use for hard type blockage, like cement blocking or remove roots. Applicable: 150-250mm Max Pressure: 4000Psi / 275Bar



MODEL	Inlet	Std Jet	Rear Jet	Insert	Size	Weight
JRM2-1/2	1/2" F	2x59"	3x55"	M6	35x76	0.41kg
JRM2E-3/4	3/4" F	2x59"	6x55"	M6	50x87	1kg



JIG Grenade Type Nozzle

Stainless steel 420, heat treatment, standard M6 insert. Combine with two different angle rear jet obtain with large thrust and cleaning ability. Use for removal deposit sediment. Applicable: 200-600mm Max Pressure: 4000Psi / 275Bar



MODEL	Inlet	Front Jet	Rear Jet	Insert	Size	Weight
JIG5-1	1" F	1/2" N/M	5/32" x 5/32"	1/8"	65x140	2.71kg
JIG5-15/16	1-1/16" F	1/2" N/M	6/32" x 6/32"	1/8"	100x210	7.5kg

JRC Combination Jet Fast Rotating Nozzle

Stainless steel body, ceramic coating rotating shaft, 3 to 6 nozzle rear jets jetting, combination 45°-50° rotatory jetting. Use for inwall cleaning after primary unblocking. Applicable: 50-300mm Max Pressure: 4000Psi / 275Bar



MODEL	Inlet	Std Jetting	Rear Jet	Insert	Size	Weight
JRC3-1/2	1/2" F	2x30" x 2x30"	3x20"	M6	40x80	0.56kg
JRC4E-3/4	3/4" F	2x30" x 2x30"	6x20"	M6	50x84	0.94kg

JWM Water Turbine Fast Rotating Milling Nozzle

Stainless steel body, ceramic coating rotating shaft, head install with standard milling blades, replaceable. Use for hard type blockage, like cement blocking or remove roots. Applicable: 150-400mm Max Pressure: 4000Psi / 275Bar



MODEL	Inlet	Std Jet	Rear Jet	Insert	Size	Weight
JWM4E-1	1" F	4x30"	6x20"	M6	70x116	2.16kg

Fewer Jets Deliver More Power for Concentrated Jetting
The IDA/DB series nozzle features fewer jets, that concentrating the hydro-jetting power and delivering the best cleaning results.

15° Penetrating Front Jet

Front jet is 15 degree off center, it rotates and creates a powerful jetting that cuts through roots, scumfums, gresse and other blockages.

Controlled Slow Rotation

It rotates in a slow and controlled speed, allowing all the jets to deliver their full power and to penetrate deeper through deposits

Rotating Jets Cut and Flush

Front jets penetrate and loosen blockage, back jets rotate to flush out debris. This is effective for cutting roots and keeping debris stirred up and suspended for easy flushing.

Durability and Long Life

These nozzles are manufactured from 304 stainless steel and feature dual bearings, rotating stem oil dampening along with precision ground tungsten stem and seal for maximum durability and operating life.










MODEL	IDA-1/2"	IDA-3/4"	IDA-1"	IDA-1 1/4"
Max Pressure (psi/bar)	5075Psi/350Bar	5075Psi/350Bar	5075Psi/350Bar	5075Psi/350Bar
Flowable (gpm/lpm)	12-25/45-95	20-50/75-190	50-80/100-300	60-120/225-450
Inlet Port	1/2"	3/4"	1"	1 1/2"
Front Penetrating Jet	1x10°	1x10°	1x10°	1x10°
Rotating Rear Jetting	2x50°	2x50°	4x60°	4x60°
Insert Size	3/8" x 24UNF	3/8" x 24UNF	3/8" x 24UNF	3/8" x 24UNF
Size ID X L (mm)	70x260	70x260	100x293	100x293
Applicable Pipe (mm)	150-450	150-450	200-900	200-900
Weight (kg)	2.31	2.27	4.78	4.82
Damping Oil (ml)	20	20	35	35

MODEL	IDA-1/2"	IDA-3/4"	IDA-1"	IDA-1 1/4"
Max Pressure (psi/bar)	5075Psi/350Bar	5075Psi/350Bar	5075Psi/350Bar	5075Psi/350Bar
Flowable (gpm/lpm)	12-25/45-95	20-50/75-190	50-80/100-300	60-120/225-450
Inlet Port	1/2"	3/4"	1"	1 1/2"
Front Penetrating Jet	1x10° x 3x45°	1x10° x 3x45°	1x10° x 3x45°	1x10° x 3x45°
Rotating Rear Jetting	4x30°	4x30°	4x30°	4x30°
Insert Size	3/8" x 24UNF	3/8" x 24UNF	3/8" x 24UNF	3/8" x 24UNF
Size ID X L (mm)	70x290	86x190	122x238	100x153
Applicable Pipe (mm)	150-450	150-450	200-900	200-900
Weight (kg)	2.36	2.23	5.56	5.60
Damping Oil (ml)	20	20	35	35

Types Of Blockage

The sewer system contains several types of pipes and drains include home commercial drains, sub floor drains, waste water and storm water, and they can all turn into blocked from time to time. There are a number of reasons that will causing blockage in sewer pipes, here of the more problematic causes is accumulation of F.O.G (Fat, Oil, and Grease), Foreign Objects(Nappies, Sanitary Napkins, Hair, Food Residual Etc.) and Tree Roots.

QP1-1/4

Sewer Nozzle Quick Connect Plug Fitting

Convert the thread fitting to a quick connect plug for Sewer Nozzle

Material: Stainless steel 420, heat treatment,
 Max Pressure: 4000psi / 275Bar
 Max Temp.: 60°C/140°F
 Inlet: 1/4" Quick Connect Plug
 Outlet: 1/4" Male



RBI-1/4, RBI-3/8

Sewer Nozzle Rear Boosting Fitting

Use for adding rear boost to sewer jetting nozzle

Material: Stainless steel 420, heat treatment,
 Max Pressure: 4000psi / 275Bar
 Max Temp.: 60°C/140°F
 Inlet: 1/4" Female, 3/8" Female
 Outlet: 1/4" Male, 3/8" Male
 Insert: 4 x M6
 Rear angle: 4 x 20°



Sewer Nozzle Inserts



MGA-55



MGH-15



MBH-15



3/8"-24UNF

Nozzle Orifice (mm)	MGA-55	MBH-15	MGH-15	3/8"-24UNF	MBH-15	MGH-15	3/8"-24UNF
0.6							
0.7	✓						
0.8	✓	✓					
0.9	✓	✓					
1.0	✓	✓	✓				
1.1	✓	✓	✓			✓	
1.2	✓	✓	✓	✓			
1.3	✓	✓	✓	✓			
1.4	✓	✓	✓	✓			
1.5	✓	✓	✓	✓			
1.6	✓	✓	✓	✓			
1.7							
1.8	✓	✓	✓	✓			✓

High Pressure Hydraulic Drain Jetting

High pressure hydraulic drain jetting can unblock and clean pipelines efficiently and quickly

Features high efficiency, fast speed, low cost and long-lasting effect. The hydraulic drain jetting system includes high-pressure equipment, jetting pipe and nozzles, etc. During the jetting operation, high-pressure water with a large flow rate is jetted through the nozzle, which is designed with a rear jet to thrust the nozzle to move forward inside the pipeline while cleaning the inner wall. Especially for the grease-caused obstruction, the cleaning effect lasts for a long time. Widely used in factories, residential areas, hotels, catering, etc., it is used for unblocking and cleaning indoor and outdoor water drains, floor drains and drainage pipes.



SUPER WEAR-RESISTANT AND FLEXIBLE
 Steel wire braided is available at P93

SENS-PE1/4"

PE High Pressure Jetting Hose

Dual braided and bonded features slick surface and high pressure resistance

PE inner tube, high strength POLYESTER Yarn dual braided and bonded can work for higher pressure and 2.5 times bursting ratio. PA cover, features light weight and snag resistant slick surface. Designed for sewer jetting application, features flexible and resistant to kinking and abrasion. Not use for hydraulic applications.
 Max Temp.: 60°C/140°F
 Max Pressure: 4000psi/275bar
 Inlet/Outlet: 1/4" 3/8" M x F Swivel
 Hose length: 30, 60M



HPHR-QR50

QR Pressure Jetting Hose Reel

Quick remove/install type sewer jetting hose reel

Steel construction, power coating, bearing-loaded, stainless steel swivel joint, on-off inlet ball cock. Hand rewinding with locking. Hand portable, with rubber feet that can stand on the floor. Featuring the locking construction that can be quickly installed onto our small Sewer/drain letter. Available for jetting hose up to 3/8".
 Max Temp.: 60°C/140°F
 Max Pressure: 3600psi/248bar
 Inlet/Outlet: 3/8" QD plug / 3/8" Female
 Hose Capacity: 3/8" x 60M



SENS-PI15"KIT

15" Pressure Jetting Hose And Nozzle Kit

Light weight sewer hose and nozzle kit for unblocking home sewers and drains for home use to cleaning the clogged sewer and drains. Easy attach to your power washer gun, extend the function and convert the pressure washer to a plumber jet. Easy to fit and use.
 Max Temp.: 60°C/140°F
 Max Pressure: 3000psi/206bar
 Inlet Fitting: M22 Male
 Hose Length: 10, 15, 20M



HPHR-WR50

WR Pressure Jetting Hose Reel

Wheeled easy portable sewer jetting hose reel. Steel construction, power coating, bearing-loaded, stainless steel swivel joint, on-off inlet cock. Hand rewinding with locking. Hand portable, with rubber feet and 3" wheel for easy wheel moving and stand on the floor. Available for jetting hose up to 3/8".
 Max Temp.: 60°C/140°F
 Max Pressure: 3600psi/248bar
 Inlet/Outlet: 3/8" QD plug / 3/8" Female
 Hose Capacity: 3/8" x 60M



FACV-345bar

FACV-AR345bar

345bar Foot Actuated Control Valve

Free hands to feed or retract the hose for sewer jetting

Operators of sewer and tube cleaning need both hands to be free to feed or retract the hose in the sewer line. A convenient foot-operated valve allows hands-free control. Thus, you can concentrate on unclogging the pipe or sewer line. It is installed between the pump outlet and the jetting hose / hose reel.
 Max Temp.: 60°C/140°F
 Max Pressure: 3000psi/206bar
 Max Flow: 10.5gpm/40lpm
 Inlet/Outlet: M22 Male / M22 Male



FACV-550bar

FACV-AR550bar

550bar Foot Actuated Control Valve

Ultra high pressure options for manual control and automatic control

Built with heavy-duty stainless steel valve, hand portable casing with a large opening for access. Longer foot control panel for easy actuation. The valve and panel are separated with a baffle. Option for adding an air cylinder pole to make automatic actuation.
 Max Temp.: 60°C/140°F
 Max Pressure: 8000psi/550bar
 Max Flow: 5.5gpm/20lpm
 Inlet/Outlet: 3/8" Male / 3/8" Male

