

Langlebig

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Wartungsfreundlich

FRANK®



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# High pressure cleaner

*oil-heated*  
*electrically-heated*



## ▶ Capacity variations

### Oil-heated

80 bar	–	900 l/h
115 bar	–	700 l/h
180 bar	–	900 l/h
210 bar	–	1.020 l/h
240 bar	–	1.020 l/h
150 bar	–	1.400 l/h

### Electrically-heated

180 bar	–	700 l/h
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## ▶ TCC - Telecontrol

No pressure peaks or jerks during operation, resulting in easy use and maximum operational safety. The ergonomically-designed spray gun is easy to handle and requires minimal operating force.

Cleaning programs can be selected directly on the spray gun. High operational safety is achieved due to smooth starting and stopping processes and automatic pressure relief after switching off.

**TCC:** Electronic remote control on the spray gun for 3 programs: "COLD", "HOT", "HOT WITH DETERGENT"

**DMP:** Pressure switch control VARIO STOP with cut-off delay, high pressure stage and steam stage.

**TS:** Total-Stop Control

▶ [www.frank-hdr.de](http://www.frank-hdr.de)

Our engineers have developed high quality, hot water high pressure cleaners for a great variety of applications. The entire life of this product line is characterized by advanced technology meeting international standards. FRANK produces only the highest quality pressure cleaners—each coming with our stamp of quality assurance. Quality components and fittings ensure a trouble-free operation. Service friendliness is an essential feature of FRANK high pressure cleaners.



Oil-heated

### **FRANK® - Triple-plunger high pressure pump**

The pump and motor form a unit block and are equipped with highly wear-resistant solid ceramic plungers. This durable pump operates quietly.

### **FRANK® - High performance water heater**

Consists of a solid heating coil made of thick wall of precision steel and is equipped with the FRANK oil atomizer burner. The optimal flow of combustion gases ensures an environmentally clean combustion and high efficiency.

### **FRANK® - Oil atomizer burner**

A compact unit utilizing an integrated oil preheater and its own motor.

### **FRANK® - Dual-Telecontrol**

Reducing the consumption of cleaning detergents by 1/3!

The Dual 2-Phase technique offers decisive advantages due to the remote controlled program selection of the operating stages low-pressure pre-spray and high pressure. The hot, low-pressure spray jet, together with a highly concentrated detergent, achieves maximum washing efficiency. The optimally dissolved dirt particles are removed by the powerful high pressure jet. Unused cleaning detergent is not wasted. Additional pre-spraying equipment is not necessary.

### **FRANK® - FHE electrically-heated**

The water is heated up to 70° C in the stainless tank with electrical tubular heating elements and is led directly to the high pressure pump.



Electrically-heated

## ► Dual-Telecontrol

► Increasing the cleaning effect by tenfold!

► Pre-spraying, hot  
10 bar • 3 l/min • max 70°C

► High pressure, cold  
Without detergent • 210 bar • 17 l/min

► High pressure, hot  
210 bar • 17 l/min

## Technical data and equipment

Series Type	Operating pressure max. (bar)	Volume flow max. (l/h)	Operating temperature max. (°C)	Mains connection (V-50Hz)	Nominal consumption (kW)	Heating capacity (kW)	Fuel oil consumption (kg/h·l/h) at 60°C	Oil-heated	Electrically-Heated	Mechanical spray gun	Telecontrol spray gun	Triple-plunger pump	10 m high pressure hose, spray gun and lance	8 m high pressure hose, spray gun and lance	Weight (kg)	Dimensions LxWxH (mm)	
<b>Oil-heated</b>																	
FH 711 TS	115	700	100	230/1	2,9	65	3,4/4,1	•	•	•	•	•	•	•	165	1245 x 590 x 845	
FH 908 TS	80	900	100	230/1	2,9	65	3,4/4,1	•	•	•	•	•	•	•	165		
FH 918 TS	180	900	100	400/3	5,3	65	4,4/5,3	•	•	•	•	•	•	•	170		
FH 1021 TS	210	1020	100	400/3	7,3	65	5,0/6,0	•	•	•	•	•	•	•	180		
<b>Electrically-heated</b>																	
FH 711 DMP	115	700	150	230/1	2,9	65	3,4/4,1	•	•	•	•	•	•	•	165		
FH 711 TCC	115	700	150	230/1	2,9	65	3,4/4,1	•	•	•	•	•	•	•	165		
FH 908 DMP	80	900	150	230/1	2,9	65	3,4/4,1	•	•	•	•	•	•	•	165		
FH 908 TCC	80	900	150	230/1	2,9	65	3,4/4,1	•	•	•	•	•	•	•	165		
FH 918 DMP	180	900	150	400/3	5,3	65	4,4/5,3	•	•	•	•	•	•	•	170		
FH 918 TCC	180	900	150	400/3	5,3	65	4,4/5,3	•	•	•	•	•	•	•	170		
FH 1021 DMP	210	1020	150	400/3	7,3	65	5,0/6,0	•	•	•	•	•	•	•	180		
FH 1021 TCC	210	1020	150	400/3	7,3	65	5,0/6,0	•	•	•	•	•	•	•	180		
FH 1021 DUAL	210	1020	150	400/3	7,3	65	5,0/6,0	•	•	•	•	•	•	•	180		
FH 1024 DMP	240	1020	150	400/3	7,5	80	5,0/6,0	•	•	•	•	•	•	•	183		
FH 1024 TCC	240	1020	150	400/3	7,5	80	5,0/6,0	•	•	•	•	•	•	•	183		
FH 1415 DMP	150	1400	150	400/3	7,5	80	6,9/8,3	•	•	•	•	•	•	•	183		
FH 1415 TCC	150	1400	150	400/3	7,5	80	6,9/8,3	•	•	•	•	•	•	•	183		
<b>Electrically-heated</b>																	
FHE 718 MP	180	700	70	400/3	23	18		•	•	•	•	•	•	•	120		
FHE 718 TCC	180	700	70	400/3	23	18		•	•	•	•	•	•	•	120		

TS ► Total-Stop  
DMP ► START/STOP by means of Pressostat system "VARIO STOP" via mechanical spray gun  
TCC ► Telecontrol - Remote control with program selection on the spray gun, start without pressure, automatic pressure discharge when the machine stops  
DUAL ► Dual-Telecontrol, two-phase technique



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The entire inner life of this product line is characterized by advanced technology meeting international standards. FRANK produces only the highest quality pressure cleaners—each coming with our stamp of quality assurance. Technical equipment at the highest level guarantees high performance and durability.

### **FRANK® - MP Total-Stop**

Pressure switch control "VARIO STOP"

The closing of the spray gun automatically initiates the adjustable cut-off delay from 2-60 seconds.

### **FRANK® - M-Bypass control**

Closing the spray gun does not switch off the machine. Rather, the spray gun remains in bypass mode which allows for instant operational readiness.

### **FRANK® - Chassis**

Our chassis are highly corrosion-resistant and offer complete collision protection. The high quality casing material is made of hot galvanized and plastic-laminated steel, ensuring increased solidity.

### **FRANK® - Triple-plunger high pressure pump**

Excellent design includes motor and pump in a single block. The solid and durable triple-plunger high pressure pump features wear-resistant, solid ceramic plungers that operate quietly.

### **FRANK® - Duplex spray lance**

Coaxial design permits infinite pressure regulation as well as operation at low and high pressure. Targeted jet stream is achieved through safe and convenient handling. Operating convenience is increased by a spray lance rotary coupling as well as by continuous pressure control. Change over to detergent operation can be done by turning the side handle.



- ▶ Dosage of cleaning agents
- ▶ Infinite pressure and flow regulation
- ▶ Bypass Control
- ▶ User-friendly

## Technical data and equipment

Series Type	Operating pressure max. (bar)	Volume flow max. (l/h)	Operating temperature max. (°C)	Mains connection (V-50Hz)	Nominal consumption (kW)	Mechanical spray gun	Telecontrol spray gun	Triple-plunger pump	10 m high pressure hose, spray gun and lance	20 m high pressure hose, spray gun and lance	Weight (kg)	Dimensions LxWxH (mm)
FC 711 M	115	700	70	230/1	2,6	•		•	•		66	856 x 545 x 918
FC 1024 M	240	1020	70	400/3	7,0	•		•	•		76	
FC 1024 MP	240	1020	70	400/3	7,0	•		•	•		76	
FC 1024 TCA	240	1020	70	400/3	7,0		•	•	•		76	
FC 1427 MS-D*	270	1440	60	400/3	12,7	•		•		•	180	1185 x 690 x 970
FC 1427 MS-SD*	270	1440	60	400/3	12,7	•		•		•	180	

- M ▶ Bypass  
 MP ▶ START/STOP by means of Pressostat system „VARIO STOP“ via mechanical spray gun  
 TCA ▶ Telecontrol - Remote control on the spray gun, start without pressure, automatic pressure discharge when the machine stops  
 MS-D ▶ Direct starting (\* Ideal for cleaning ships by means of sea water resistant high pressure pump)  
 MS-SD ▶ Y/Δ (\*Ideal for cleaning ships by means of sea water resistant high pressure pump)



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# Wall Modules

## *hot water*



## Wall Modules

- ▶ Oil-fired
- ▶ Gas-fired
- ▶ Electrically-heated



**Up-to-date concepts –  
Superior systems**

- ▶ **Oil-fired**  
proven and reliable  
The water heater and oil burner, combined with an oil preheater, make this a sophisticated, high quality product.
- ▶ **Gas-fired**  
the reasonable alternative  
The water heater with its gas burner is a FRANK speciality – setting new standards for cleanliness, non-polluting combustion and inexpensive fuel storage, while requiring minimal maintenance.
- ▶ **Electrically-heated**  
the exhaust-free solution  
The stainless steel water heater with its electrical tabular radiator and unpressurized hot water storage allows for continuous hot water operation.

## Control Systems

### TCC-Telecontrol

This machine automatically starts and stops when the operator activates the 3-program electronic remote control spray gun.



No pressure peaks or jerks during operation, resulting in easy use and maximum operational safety. The ergonomically-designed spray gun is easy to handle and requires minimal operating force. Cleaning programs can be selected directly on the spray gun. High operational safety is achieved due to smooth starting and stopping processes and automatic pressure relief after switch off.

### MSE-Z – Remote control

Programs:

- ▶ COLD
- ▶ HOT
- ▶ Detergent A
- ▶ Detergent B
- ▶ STOP

**VARIO STOP** Pressure Switch Control with cut-off delay, adjustable from 2-60 seconds. The additional automatic timer controls the readiness for operation and the complete shutdown of the machine.

### Oil burner with oil preheater

Expect high efficiency, automatic flame monitoring and clean and safe combustion—even when using varying oil grades or cold fuel oil.



Wall module electrically-heated

### Gas burner sets new standards

Includes UV-flame monitoring and is DVGW certified.

Fine-tuned for regulating constant water temperature and maintaining high levels of efficiency.

### The powerful “heart”

Excellent design includes motor and pump in a single block. Solid triple-plunger high pressure pump features wear-resistant, solid ceramic plungers.

### Trouble-free maintenance

All components are arranged in a clear and easily accessible manner.

### Safety block

Consistent user security achieved due to safety valve, flow switch, pressure/flow rate regulating valve, pressure switch, pulsation damper and pressure gauge technologies.

### Stainless steel water heater

Includes electrical tabular radiators.

## Technical data and equipment

Series type	Operating pressure max. (bar)	Volume flow max. (l/h)	Operating temperature max. (°C)	Mains connection (V-50Hz)	Nominal consumption (kW)	Heating capacity (kW)	Fuel oil consumption (kg/h/h) at 60 °C	Gas consumption (m <sup>3</sup> /h) Natural Gas L at 60 °C	Oil-heated	Gas-heated	Electrically-heated	Mechanical spray gun with lance and 10 m high pressure hose	Telecontrol spray gun with lance and 10 m high pressure hose	MSE-Z-Control box	Weight (kg)	Dimensions LxWxH (mm)
<b>Heated Module</b>																
FOM 918 MSE-Z	180	900	150	400/3	5,3	65	4,4/5,3		•			•		•	210	Module 1000 x 580 x 825 Switch cabinet 380 x 380 x 210
FOM 918 TCC	180	900	150	400/3	5,3	65	4,4/5,3		•			•	•		210	
FOM 1024 MSE-Z	240	1020	150	400/3	7,5	80	5,0/6,0		•			•		•	215	
FOM 1024 TCC	240	1020	150	400/3	7,5	80	5,0/6,0		•			•	•		215	
FOM 1415 MSE-Z	150	1400	150	400/3	7,5	80	6,9/8,3		•			•		•	215	
FOM 1415 TCC	150	1400	150	400/3	7,5	80	6,9/8,3		•			•	•		215	
FGM 918 MSE-Z	180	900	150	400/3	5,3	70		6,6		•		•		•	210	Module 1000 x 580 x 825 Switch cabinet 600 x 600 x 210
FGM 918 TCC	180	900	150	400/3	5,3	70		6,6		•		•	•		210	
FGM 1024 MSE-Z	240	1020	150	400/3	7,5	70		7,5		•		•	•		215	
FGM 1024 TCC	240	1020	150	400/3	7,5	70		7,5		•		•	•		215	
FEM 718 MSE-Z/18	180	700	70	400/3	23,0	18					•	•		•	210	Module 1000 x 580 x 825 Switch cabinet 600 x 600 x 210
FEM 718 TCC/18	180	700	70	400/3	23,0	18					•	•		•	210	
FEM 718 MSE-Z/30	180	700	70	400/3	35,0	30					•	•		•	210	
FEM 718 TCC/30	180	700	70	400/3	35,0	30					•	•		•	210	

FOM ▶ Oil-heated FGM ▶ Gas-heated FEM ▶ Electrically heated  
 TCC ▶ Telecontrol - Remote control with program selection on the spray gun, start without pressure, automatic pressure discharge when the machine stops  
 MSE-Z ▶ Remote control with program selection via electrical control box, START/STOP by means of Pressostat system via mechanical spray gun "VARIO STOP" system - Cut-off delay, with automatic timer

Special types optional: Self-Service Wash Stations FOM...SB, FGM...SB with remote control cabinet, coin-acceptor unit, smart-card system



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# Wall Module

## *unheated*

### The unheated stationary unit for cold or hot water operation

▶ **Efficient cold water, high pressure cleaning**

Our high pressure jet works with the correct dosage of cleaning/preserving agents to provide the desired results, while maintaining low operating costs.

▶ **Alternatively, economical hot water high pressure cleaning**

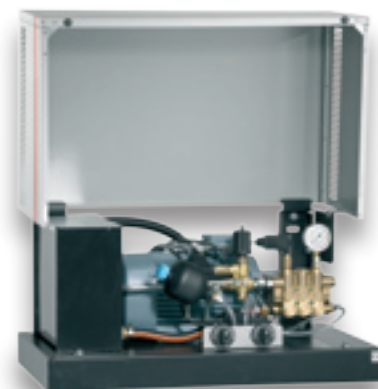
Connecting the unheated wall module to a central water supply makes it the most effective hot water high pressure station. The hot water high pressure jet combined with the properly selected cleaning/preserving agent offers you the best possible result.

MADE IN GERMANY

### The MSE-Z system with remote control and timer function



Unheated MSE-Z wall module



Main switch cabinet MSE-Z



MSE-Z remote control

Programs:

- ▶ COLD or HOT
- ▶ Detergent A
- ▶ Detergent B
- ▶ STOP

With kit for HOT/COLD

- ▶ COLD
- ▶ HOT
- ▶ Detergent A
- ▶ Detergent B
- ▶ STOP

- ▶ **VARIO STOP** Pressure Switch Control with cut-off delay, adjustable from 2-60 seconds. The additional automatic timer controls the readiness for operation and the complete shutdown of the machine. The wear on the machine is reduced tremendously due to the reduced number of interruptions everytime the spray gun is opened and closed

# The TCC-Telecontrol and the MP-VARIO Stop models

## TCC-Telecontrol

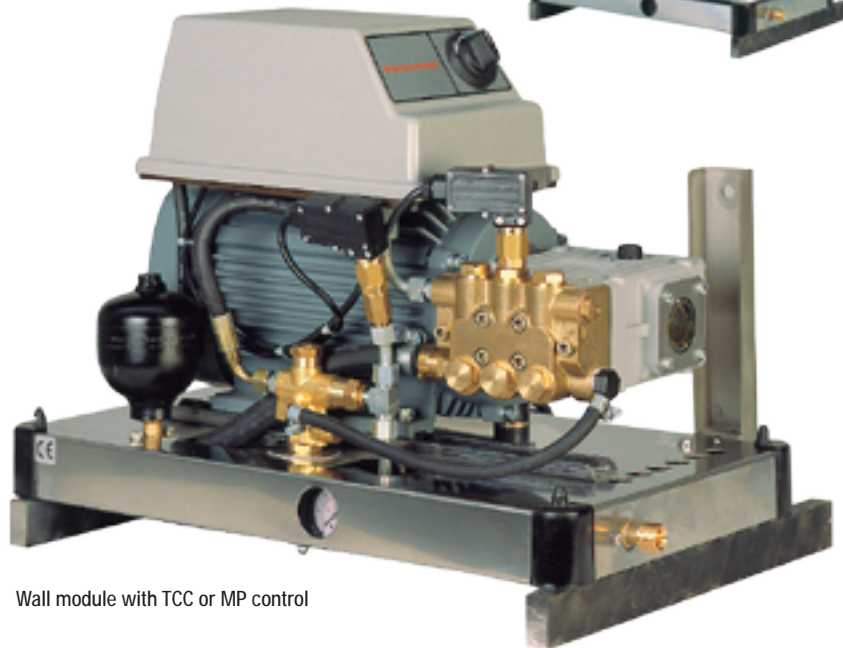
The machine will automatically start or stop when the operator activates the 3-program electronic remote control spray gun.



No pressure peaks or jerks during operation, resulting in easy use and maximum operational safety. The ergonomically-designed spray gun is easy to handle and requires minimal operating force. Cleaning programs can be selected directly on the spray gun. High operational safety is achieved due to smooth starting and stopping processes and automatic pressure relief after switch off.

### True for all variants:

- ▶ **Trouble-free maintenance**  
All components are arranged in a clear and easily accessible manner.
- ▶ **The powerful "heart"**  
Excellent design includes motor and pump in a single block. Solid triple-plunger high pressure pump features wear-resistant, solid ceramic plungers.
- ▶ **Safety block**  
Consistent user security achieved due to flow rate regulating valve, safety valve, pressure switch, pulsation damper and pressure gauge technologies.



Wall module with TCC or MP control

## MP – Total – Stop – Pressure

Switch Control "VARIO STOP"

Adjustable cut-off delay from 2-60 seconds. After VARIO-STOP cut-off time, module will be shut off, jet stays on stand-by mode.

## Technical data and equipment

Series Type	Operating pressure max. (bar)	Volume flow max. (l/h)	Operating temperature max. (°C)	Mains connection (V-50Hz)	Nominal consumption (kW)	for cold or hot water operation	Mechanical spray gun with lance and 10 m high pressure hose	Telecontrol spray gun with lance and 10 m high pressure hose	Triple-plunger pump	Weight (kg)	Dimensions LxWxH (mm)
<b>Unheated Module</b>											
FCM 918 MSE-Z	180	900	60	400/3	4,8	•	•	•	•	90	Module 750 x 460 x 380 Switch cabinet 380 x 380 x 210
FCM 918 TCC	180	900	60	400/3	4,8	•	•	•	•	90	
FCM 1024 MSE-Z	240	1020	60	400/3	4,8	•	•	•	•	90	
FCM 1024 TCC	240	1020	60	400/3	7	•	•	•	•	90	
FCM 1415 MSE-Z	150	1400	60	400/3	7	•	•	•	•	90	
FCM 1415 TCC	150	1400	60	400/3	7	•	•	•	•	90	
FCM 1024 MP*	240	1020	60	400/3	7	•	•	•	•	68	560 x 378 x 395

MP ▶ START/STOP by means of Pressostat via mechanical spray gun. "VARIO STOP" System - Cut-off delay with remote control  
 TCC ▶ Telecontrol remote control with program selection on the spray gun, start without pressure and automatic pressure relief when the machine stops  
 MSE-Z ▶ Remote control with program selection via electrical control box, START/STOP by means of Pressostat system via mechanical spray gun "VARIO STOP" system - Cut-off delay, with automatic timer

Optional equipment:

- ▶ Kit HOT/COLD
- \* Injector and Duplex spray lance for the dosage of detergents



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