Installation samples for DELTA oil supply units

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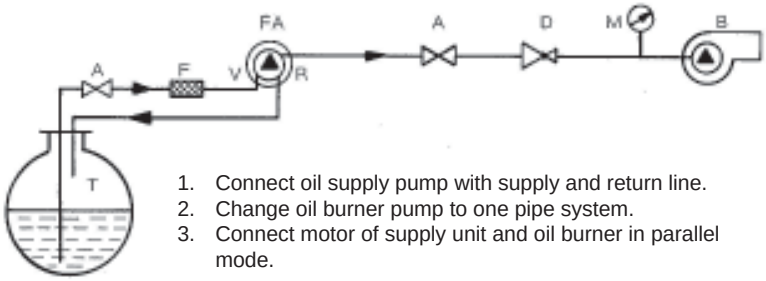
Two Pipe / One Pipe - Installation

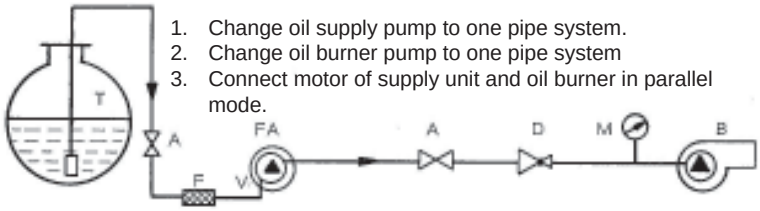
for supply to one oil burner which is located apart from the fuel tank. The supply unit works in two pipe system, the oil burner is served by an oil pressure line.



1. Connect oil supply pump with supply and return line.
2. Change oil burner pump to one pipe system.
3. Connect motor of supply unit and oil burner in parallel mode.

One Pipe / One Pipe - Installation

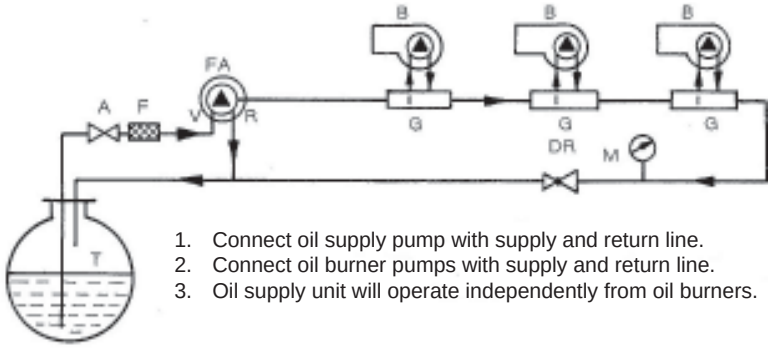
Both oil supply pump and oil burner pump work in one pipe system. Select pipe diamater according to oil burner output.



1. Change oil supply pump to one pipe system.
2. Change oil burner pump to one pipe system
3. Connect motor of supply unit and oil burner in parallel mode.

Circuit Pipe Line Installation

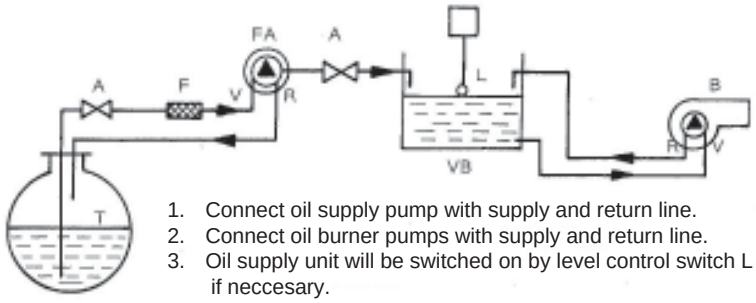
for supply of one or more oil burners operating in two pipe system. Connect oil supply pump and oil burner pumps with supply and return line. The circuit line pressure will be adjusted with the pressure regulating valve DR.



1. Connect oil supply pump with supply and return line.
2. Connect oil burner pumps with supply and return line.
3. Oil supply unit will operate independently from oil burners.

Installation with supply tank

for supply of one or more oil burners in one or two pipe system. Installation of a level control switch (upper switch-off point) is neccesary to avoid overflowing of oil. To prevent the oil burner pumps from damage due to running out of oil (lower switch-on point) it is recommended to install an oil flaw switch.



1. Connect oil supply pump with supply and return line.
2. Connect oil burner pumps with supply and return line.
3. Oil supply unit will be switched on by level control switch L if neccesary.

Index of short cuts:

A	Saftety switch-off valve	L	Level control switch
B	Oil burner with fuel pump	M	pressure gauge
D	Pressure reduce valve	R	Return line
DR	Pressure regulating valve	T	Tank
F	Filter	V	Supply line
FA	Oil supply unit	VB	Supply tank
G	Gas or air separator		

Common advice:

To prevent malfunctions and noise the following recommendations for pipe diameters should be noticed:

Flow rate	pipe-∅ DN
up to 55 l/h	6 mm
up to 80 l/h	8 mm
up to 100 l/h	10 mm
up to 180 l/h	12 mm
up to 270 l/h	14 mm
up to 330 l/h	16 mm

All pressure reduce and regulating valve settings should not exceed the allowed maximum supply and return line pressure of the fuel oil pumps (for example 0,5 bar).

The oil supply unit capacity may be adapted to the maximum fuel consumption of all connected oil burners. Avoid exceeding maximum capacity of the supply oil unit.

Please note manufacturers advice when changing the fuel oil pumps to one pipe system and for maximum length of the sucction line.