



COMIST 180 DSPNM CE 50Hz

Code: 5428010

Series: COMIST DSPNM

Technical and functional features

- Dual fuel natural gas/heavy oil burners.
- Two-stage progressive output operation.
- Ability to operate with output modulation by means of automatic RWF40 regulator mounted on the control panel (order separately with the specific modulation kit).
- Compatible with any type of combustion chamber.
- Air-gas mixing at blast-pipe and high pressure mechanical atomisation of fuel using nozzle.
- Ability to obtain optimal combustion values by regulating combustion air and blast-pipe.
- Maintenance facilitated by the fact that the mixing unit and the atomisation unit can be removed without having to remove the burner from the boiler.
- Minimum and maximum air flow regulation for first and second stage by means of electric servomotor with pause closure of gate to prevent any heat dispersion to flue.
- Tightness gas valve control, EN676.
- Equipping for automatic fuel switching.
- Comes with 2 flexible oil pipes, 1 oil filtre, 1 flange and 1 insulating seal to connect the burner to the application. Nozzle must be ordered separately according to the burner nominal output required..

Design features

- Light aluminium alloy fan part.
- High performance centrifugal fan.
- Combustion air inlet with device to adjust the air flow.
- Sliding boiler coupling flange to adapt the head protrusion to the various types of boilers.
- Adjustable blast-pipe with stainless steel nozzle and deflector disk in steel.
- A three-phase electric motor to run fan and another to run the pump.
- Air pressure switch to ensure the presence of combustion air.
- Electric servomotor with mechanical cam for simultaneous regulation of combustion air and fuel.
- Gas train complete with control, operating, safety and pilot valves, valve seal control, minimum and maximum pressure switch, pressure control and gas filter.
- Gear pump with pressure regulator.
- Atomisation unit with magnet to control the outlet/nozzle return pins.
- Electrical fuel preheater comprising antigas valve, filter, thermometer, regulation thermostats and minimum safety device.
- Sequence controller - EN 298..
- Ultra Violet cel flame scanner.
- Control panel comprising stop/go switch, automatic/manual and minimum/maximum selector, fuel change switch and operation, block, pre-heating resistors on and fuel used indicator.
- Terminal block for the electrical and thermostatic connections to the burner and to control the second stage of working or for the connection of the electronic output regulator.
- Electrical plant protection rating IP40.

Available version on request

- Burner may be integrated with a steam-operated supplementary fuel oil preheater which allows fuel oil to be heated with steam from the boiler during regular operation, saving electricity.

-Steam pre-heater.

Technical Data - COMIST 180 DSPNM CE 50Hz:

Minimum Rated output	688	kW
Maximum Rated output	1981	kW
Minimum light oil flow rate	110	kg/h
Maximum light oil flow rate	327	kg/h
Minimum oil flow rate	62	kg/h
Maximum oil flow rate	177	kg/h
Minimum gas flow rate	69	m3/h
Maximum gas flow rate	199	m3/h
Fuel max viscosity	7	°E
Motor rated power	4.1	kW
Tank resistors rated power	15	kW
Electric Power Supply Phase	3	N
Electric Power Supply Frequency 1	50	Hz
Electric Power Supply Current	AC	
Electric Power Supply Voltage	400	V
Width	915	mm
Height	1225	mm
Depth	1700	mm
Weight	405	kg
Pack Width	2030	mm
Pack Height	990	mm
Package depth	1210	mm
Weight of Packaging	405	kg