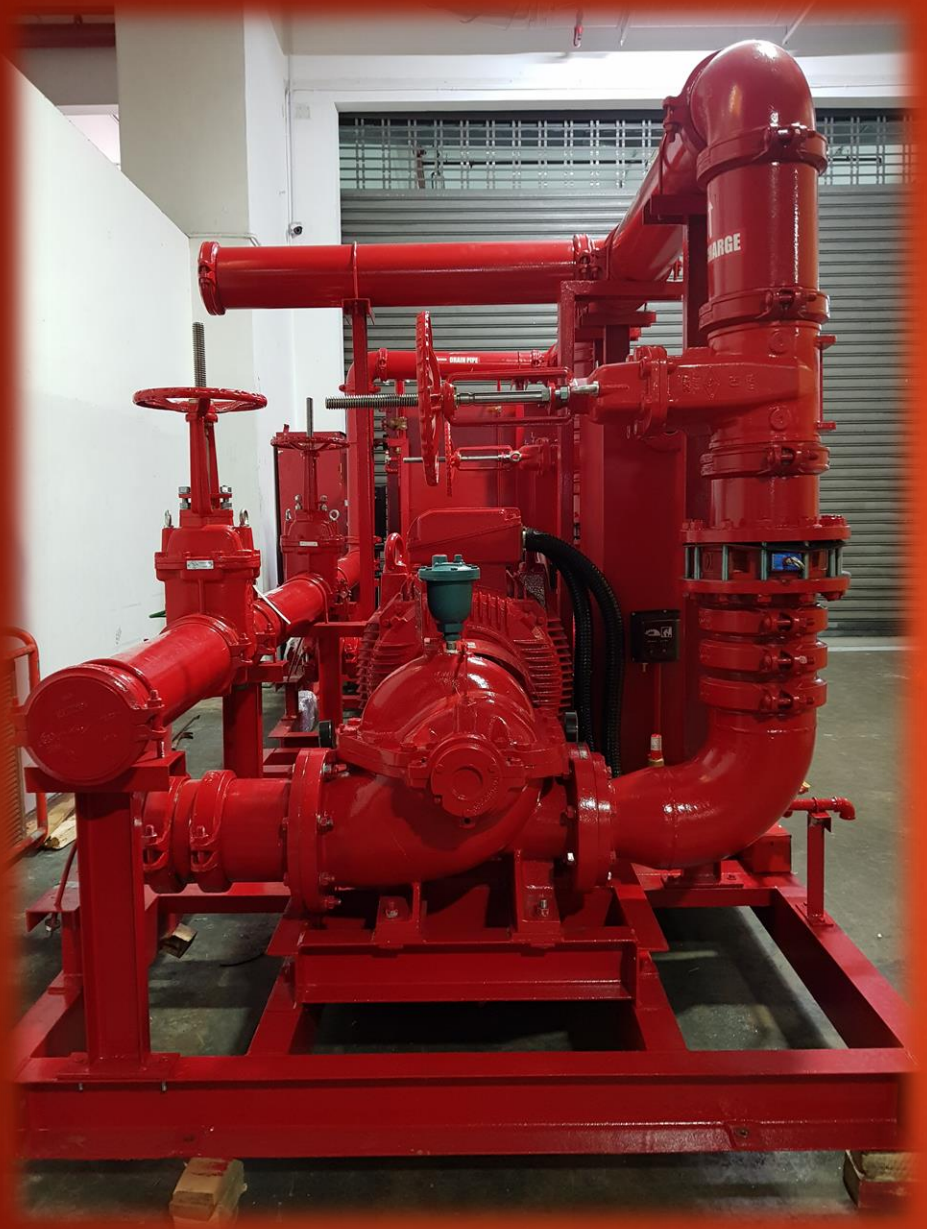
FIRE PUMP SYSTEM

PRE-ASSEMBLY ON A COMMON MANIFOLD






SUCTION


GRUNDFOS
GRUNDFOS
SIMPLIFY
STABILISE
DRAIN
DRAIN










HY 02
HY 01


PUMP ROOM
DISCHARGE

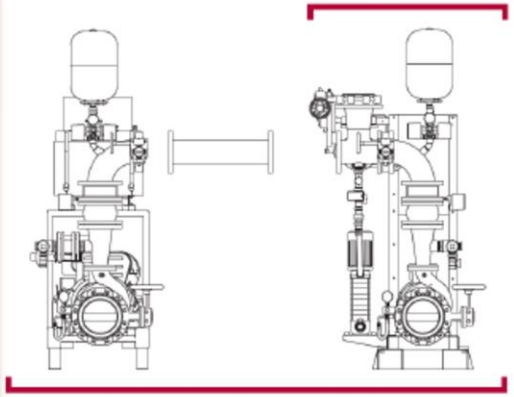



ISOLATOR NOT TO BE
SWITCH OFF
IN THE EVENT OF FIRE

FIRE PUMP SYSTEMS



Example of a single pumping unit



Example of a pumping set with two pumps

Model :

CAE-FP-2E/1ED/2DD VER 01

The Fire Pump System are simple and reliable system, consisting of 1 Jockey Pump and 2 Main Pumps , connected in parallel and mounted on a common skid base.

The Fire Pump Systems are supplied as complete, pre-assembled and tested system including suction and discharge manifolds, isolating valves, non-return valves, pressure switches and gauges.

The controller comes with IP55 enclosure incoming and outgoing indication. Phase reversal, loss alarm. Pump on demand, overcurrent, failed to start, run and stop indication. Batt charger DC voltage and ampere display. Auto/off/manual selector, manual start, stop and lamp test pushbutton. Buzzer with mute pushbutton. Duty/standby selector switch. Voltage free contact for remote monitoring.

Equipment supplied as standard

- JOCKEY PUMP
- 2 MAIN FIRE PUMPS (1 DUTY + 1 STANDBY)
- FIRE PUMP CONTROLLERS
- INTER-CONNECTING MANIFOLD
- TEST RACK WITH PRESSURE SWITCHES/TRANSDUCER, GAUGES AND VALVES.

Optional Features

- DATA LOG (PRESSURE , PUMP STATUS, DATE AND TIME RECORDING)
- PRESSURE VESSEL TANK
- VOLT/AMP/POWER METER FOR CONTROLLER

System Operation

In the event of a fall in pressure, the Jockey Pump will automatically start, its control operation is via the pressure switch.

Should the flow provided not sufficient to cope with the demand, the Duty Main Fire Pump will automatically be started via the pressure switch and continue to operate until manually stopped.

The standby Main Fire pump will automatically start, should the Duty Main Fire Pump Failed. Once the standby Main Fire Pump start, it continue to operate until manually stopped.

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FIRE HOSEREEL BOOSTER SET



Model : CAE-HR-BS VER 01

The Fire Hosereel Boosters set are simple and reliable system, consisting of 2 Pumps , connected in parallel and mounted on a common skid base.

The Fire Hosereel Boosters set are supplied as complete, pre-assembled and tested system including suction and discharge manifolds, isolating valves, non-return valves, pressure switches and gauges.

The controller comes with motor protection , incoming indication, water level sensor with high/low level indication, Run/stop/trip indication for each pump , auto/off/manual selector , manual start/stop pusbutton and duty/standby selector switch.

Standard Features

- IP55 ENCLOSURE (SUITABLE FOR OUTDOOR USAGE)
- 2 PUMPS OPERATION (1 DUTY + 1 STANDBY)
- TEST RACK WITH PRESSURE GAUGE AND SWITCHES

Optional Features

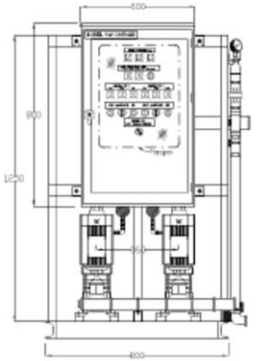
- DATA LOG (PRESSURE , PUMP STATUS, DATE AND TIME RECORDING)
- HOUR RUN METER FOR EACH PUMP
- VOLT/AMP/POWER METER FOR CONTROLLER

System Operation

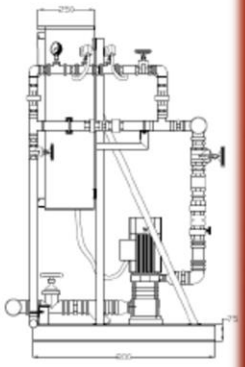
When the hose is opened, Water will be drawn from the system. The pressure will drop to the first cut-in pressure level, and the duty pump will be activated.

When the water demand increases, the stand-by pump will cut-in until the performance of the pumps in operation corresponds to the demand.

As the water demand falls, the discharge pressure will rise to the first cut-out pressure level and the pressure switch will cut-out one pump . as water demand continuous to falls, the other pump will eventually cut-out, and in preparation for the next demand cycle.



FRONT VIEW



SIDE VIEW

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