



	A	B	C	D
FLEN 20	1400	1300	1500	1150
FLEN 30	1500	1600	1500	1150

	A	B	C	D
FLEN 50	1550	1600	1600	1150
FLEN 60	1600	1800	1700	1250

DAYLIFF FLEN packaged Fire Sets are specially designed to provide automatic water supply to fixed automatic sprinkler firefighting installations. Pump sets combine single duty diesel and electric powered supply main pumps to ensure serviceability in all conditions as well as a jockey pump to maintain system pressure. The fire sets are certified by KEBS for assembly in conformity to BS EN 12845 standard to ensure high reliability. Particular features include: -

- Individual electric motor and diesel engine powered pump sets providing standby supply in event of electrical power failure.
- Separate automatic jockey pump to maintain system pressure restricting start of main pumps to at least one open sprinkler.
- Independent control panels for each pump with EN 12845 compliant control units.
- Double self-disabling type pressure switches providing automatic starting of the main electric and diesel pump(s)
- Main pumps of back pull-out design and stable curves with spacer couplings to allow inspection of the hydraulic parts without disconnection of the piping, motor, or engine
- Vibration dampening system on diesel engine-driven pump sets consisting of rubber anti-vibration expansion joints that reduce the amount of the vibrations produced by the diesel engine reaching the system.

For all firefighting applications high levels of equipment performance and dependability are vitally important for the protection of both lives and property. Dayliff FLEN Fire Sets combine quality components for optimal operational efficiency with high pumping efficiency and competitive pricing to provide effective, reliable, and easy to install firefighting solutions certified to accepted insurance performance standards.

**Supply Pumps:** Dayliff DE end suction bareshaft or DMS horizontal multistage centrifugal pumps featuring gland packing seal and heavy duty cast iron construction. DE pumps have bronze impellers while DMS pumps have cast iron stage, impellers and diffusers. Pump models are selected to meet the design pressure and flow rates. Detail performance curves are available on request.

**Diesel Engine:** Options of Dayliff DLA air cooled, Kohler KD naturally aspirated air-cooled or KDI water cooled engines fitted with automatic electric start, engine mounted fuel tank (not KDI) and a dual 65AH battery set. Alternative engines are available on request.

**Electric Motor:** TEFC squirrel cage 2-pole 2900 rpm electric motors suitably rated for the pump load.

**Jockey Pump:** Option of DB4-60 horizontal multistage pump or Dayliff DI 3-19 vertical multistage centrifugal pump fitted with electric motor. The pump is set to maintain system pressure at 10bar thus avoids cycling of the service pumps due to minor system leakages.

**Pressure Vessel:** GWS pressure vessel featuring polypropylene liner with special diaphragm and air valve design that eliminates leaks and the need for maintenance.

**Piping:** Suitably sized piping and fittings are provided for direct suction and delivery line connections including necessary isolating gate valves, non-return valves on the system outlet. The limit of piping is shown in the schematic drawing.

**Control Panel:** Electric pump control panel with star-delta starter, Jockey pump control panel with DOL starter and engine pump control panel with DC power circuit for engine and DC battery charging system. The control panels are integrally mounted as standard though can be supplied loose for remote installation if required.

### EQUIPMENT SPECIFICATION

Model	Nominal Flow (m³/hr)	Medium Pressure 5Bar					Model	Nominal Flow (m³/hr)	High Pressure 10Bar					Piping DIA (")
		Electric Pump		Diesel Pump		Wt (kg)			Electric Pump		Diesel Pump		Wt (kg)	
	Single Duty	Pump	Motor (kW)	Engine	Power (kW)			Single Duty	Pump	Motor (kW)	Engine	Power (kW)		
FLEN 20/5	20	DE 40-20	11	DLY40	25	590	FLEN 20/10	20	DE40-32H	30	DLY60	40	670	4
FLEN 30/5	30	DE 50-20	18.5	DLY40	25	820	FLEN 30/10	30	DE50-32H	45	DLY80	60	1520	
FLEN 50/5	50	DE 65-20	30	DLY60	40	900	FLEN 50/10	50	DE50-32H	55			1540	
FLEN 60/5	60	DE 80-20	45	DLY80	60	1040	FLEN 60/10	60	DE65-32H	55				6