UPDATED

FLA
Engine/Electric Fire Sets





DAYLIFF FLA packaged Fire Sets are specially designed to provide automatic supply to multiple hose reel or sprinkler outlets for firefighting installations. Pump sets combine parallel duty diesel and electric powered supply pumps to ensure serviceability in all conditions as well as a jockey pump to maintain system pressure. Particular features include:-

- Individual electric motor and diesel engine powered pump sets providing standby supply in the event of electrical power failure
- Separate automatic jockey pump to maintain system pressure and regulate main pump operation
- Bellows type pressure switch controlled operation providing progressive jockey pump, electric pump and diesel pump starting at reducing cut-in pressures
- Low maintenance diaphragm type pressure vessel to regulate the jockey pump cycling.
- Integral control panel providing automatic parallel operation of the supply pumps and incorporating electrical protection panels and a DC battery charging system
- Compact frame mounted design incorporating necessary valves and piping for simple site installation

Systems are designed to give rated output of either about 5bar or 10bar and flow rates of upto 360m^3/hr with the two pump sets operating in parallel, 50% standby output being provided in the event of electrical failure.

Fire sets EN12845 specification certified as compliant by KEBS are also available. Performance and design is similar though some components are to high level specification as stipulated in the standard.

Dayliff FLA Fire Sets combine quality components for optimal operational efficiency with Dayliff's unmatched pumping expertise and competitive pricing to provide effective, reliable and easy to install firefighting solutions.

SPECIFICATIONS

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

Diesel Engine: Dayliff DLA air cooled or Dayliff DLY water cooled with automatic electric start. 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 DIN3-19 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 polyproplene liner with special diaphragm and air valve design that eliminates leaks and the need for maintenance.

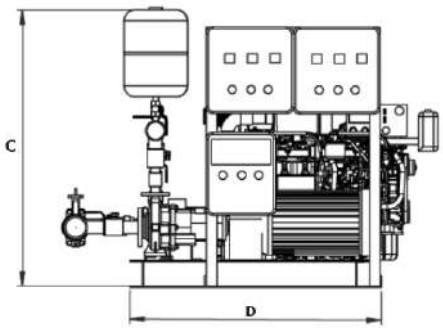
Piping: Suitably sized piping and fittings are provided for direct suction and delivery line connections including necessary isolating gate valves, non-return valves on the system outlet. The limit of piping is shown in the schematic drawing.

Control Panel: Independent panels for electric and engine main pumps and the jockey pump. Electric pump includes a star-delta starter with comprehensive motor protection, diesel pump has automatic start and battery charging, and the jockey pump controller automatically maintains system pressure.

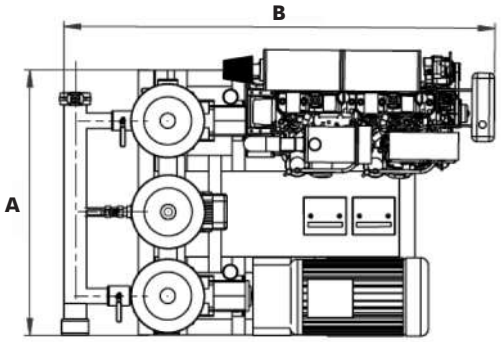
EQUIPMENT SPECIFICATION

Model	Nominal Flow (m^3/hr)	Medium Pressure 5 Bar					
		Electric Pump		Diesel Pump		Weight (kg)	Piping Dia (")
	Parallel Duty	Pump	Motor(kW)	Engine Model	Engine (kW)		
FLA 10/5	10	DE 32-16/174	5.5	DLA10DE	6.5	320	2.5
FLA 20/5	20	DE 32-20/195	7.5	DLA20D	13	380	2.5
FLA 40/5	40	DE 32-20/205	7.5	DLA20D	13	420	3
FLA 50/5	50	DE 32-20/214	11	DLA20D	13	480	4
FLA 60/5	60	DE 40-20/205	11	DLA20D	13	480	4
FLA 80/5	80	DE 50-20/205	15	DLY40	29	600	4
FLA 100/5	100	DE 50-20/205	15	DLY40	29	640	6
FLA 120/5	120	DE 50-20/214	18.5	DLY40	29	660	6
FLA 140/5	140	DE 50-26/215	22	DLY40	29	720	6
FLA 180/5	180	DE 65-20/205	30	DLY60	42	860	6
FLA200/5	200	DE65-20/205	30	DLY60	42	880	8
FLA240/5	240	DE 65-26/215	30	DLY60	42	940	8
FLA 280/5	280	DE 80-26/205	37	DLY80	62	1100	8
FLA 320/5	320	DE 80-20/205	45	DLY80	62	1120	8
High Pressure 10 Bar							
FLA 20/10	20	DE 32-26/264	18.5	DLY40	29	640	2.5
FLA 40/10	40	DE 40-32H/270	30	DLY60	42	940	3
FLA 60/10	60	DE 40-32H/270	30	DLY60	42	960	4
FLA 80/10	80	DE 50-32H/270	45	DLY80	62	1140	4
FLA 100/10	100	DE 50-32H/270	45	DLY80	62	1160	6
FLA 140/10	140	DE 50-32H/290	55	DLY80	62	1180	6
FLA 180/10	180	DE 65-32H/285	75	DLY110	86	1300	6
FLA 200/10	200	DE 65-32H/290	75	DLY110	86	1300	8
FLA 240/10	240	DE 80-32H/285	90	DLY170	125	2100	8
FLA 280/10	280	DE 80-32H/290	90	DLY170	125	2100	8
FLA 320/10	320	DE 80-32H/300	90	DLY170	125	2350	10
FLA 360/10	360	DE 80-32H/300	90	DLY170	125	2350	10

Medium Pressure (5Bar): Cut-out pressure 5.1Bar, Cut-in pressure 3.5, 3.0 & 2.5Bar for jockey, motor & engine respectively.
High Pressure (10Bar): Cut-out pressure 10.5Bar, Cut-in pressure 7.5, 6.5 & 5.5Bar for jockey, motor & engine respectively.



	A	B	C	D
FLA 10/20/40	1400	1300	1500	1150
FLA 60	1500	1600	1500	1150



	A	B	C	D
FLA 100	1550	1600	1600	1150
>FLA 120	1800	2000	1700	1500