

**Key features:**

- Full range pump capacity
- Electric/ Diesel drive options
- Low operation cost
- Portable field use

Application:

Compatible with all CRC Evans Pipe Facing Machines.

Hydraulic Power Unit

Provides full power to any CRC Evans Pipe Facing Machine (PFM) without fail

The CRC Evans Hydraulic Power Unit (HPU) is used to power any CRC Evans Pipe Facing Machine (PFM). The unit features a power drive unit, hydraulic reservoir, main and feed pumps with coinciding pressure relief valves, pressure gauges, filters and necessary hoses. Fittings and quick disconnects are needed.

The HPU can be setup to use a variety of power drives. They are available with John Deere diesel power units as standard which are supported around the world. Other engines can be provided upon request. Electric motor drivers are available in 50 and 60 Hz.

The HPU is durable and highly temperature resistant being deployable in both Arctic and Desert applications – supporting -50°C all the way up to 50°C.

Hydraulic Power Unit

GENERAL DATA	
Ambient conditions	-30°F to +113°F [-30°C to +45°C]
Fuel [diesel] tank	128 liters [34 gallons]
Hydraulic tank	461 liters [122 gallons]

HYDRAULIC SYSTEM SETTINGS	
Hoses	2 Supply; 1 Return
Main pump relief valve	2,000 psi [138 bar]
Feed pump relief valve	500 psi [35 bar]
Warm-up pressure	Not applicable
Main pump max displacement	81.1 cc/rev
Feed pump max displacement	5.8 cc/rev
Main Return Pressure Hose	1 1/4"
Main Pressure Hose	1"
Feed Pressure Hose	1/2"

DIESEL ENGINE SETTINGS	
Model	John Deere 4045TF
Horsepower (max)	55 kW [74 HP] @2,200 RPM
Idle speed	800 RPM
Max speed limited to	2,200 RPM

MISCELLANEOUS	
Enclosure	Not applicable
Drip Tray	Restrict environmental damage with leaks
Fuel Type	No. 2 D. fuel oil
Filtration	10 micron return suction
Hydraulic Fluid	Mobil 220 ATF or equivalent
Pump Type (Piggy Back)	Fixed displacement - vane
Control Panel	Hour meter Emergency stop Pressure gauge

Dimensions and Weights		HPU Diesel	HPU CE Model	HPU Electric
Dimensions	inches	92.3 x 43 x 84.8	82.7 x 43.3 x 66.2	92.3 x 43 x 84.8
	mm	2,343 x 1,092 x 2,153	2,100 x 1,100 x 1,680	2,343 x 1,092 x 2,153
Weight [with fluids]	lb	4,800	6,173	3,373
	kg	2,144	2,600	1,530

Electrical Motor Requirements			
Hertz [cycles per second]	50*	50*	60
Amps	78	76	74
Volts	380	415	460
Phase	3	3	3
Temperature Ratings Amb.	40°C	40°C	40°C
Service Factor	1.15	1.15	1.15
RPM	1,450	1,450	1,450



Hydraulic Power Unit [CE Model]

GENERAL DATA	
Ambient conditions	-30°F to +113°F [-30°C to +45°C]
Fuel [diesel] tank	230 liters [61 gallons]
Hydraulic tank	300 liters [79 gallons]

DIESEL ENGINE SETTINGS	
Model	John Deere 4045TF
Horsepower [max]	60 kW [80 HP] @2,400 RPM
Idle speed	850 RPM
Max speed limited to	1800 RPM

MISCELLANEOUS	
Enclosure	Sound attenuated
Drip Tray	Restrict environmental damage with leaks
Fuel Type	No. 2 D. fuel oil
Filtration	10 micron return suction
Hydraulic Fluid	Mobil 220 ATF or equivalent
Pump Type	Fixed displacement - vane
Pump	Parker T7
Cooler	Hydax
Control Panel	Hour meter Emergency stop Pressure gauge
Safety	Low oil level High oil temperature Motor protection

HYDRAULIC SYSTEM SETTINGS	
Hoses	2 Supply; 1 Return
Main pump relief valve	2,321 psi [160 bar]
Feed pump relief valve	500 psi [35 bar]
Warm-up pressure	870 psi [60 bar]
Main pump max displacement	81.1 cc/rev
Feed pump max displacement	5.8 cc/rev
Main Return Pressure Hose	1 1/4"
Main Pressure Hose	1"
Feed Pressure Hose	1/2"