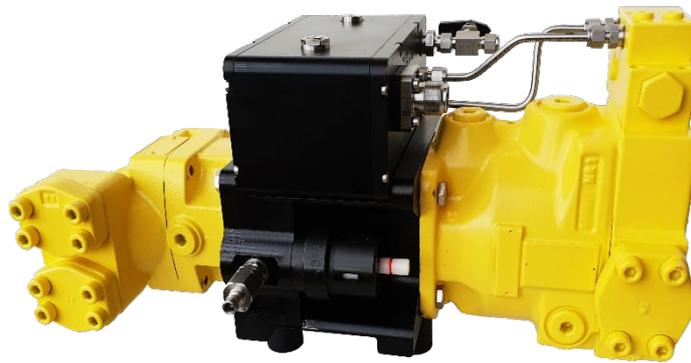


# SMART DIRTY WORK PACK

16CC-28CC  
SMART ISOLATED  
HYDRAULIC POWER UNIT



## Description

The Dirty Work Pack (DWP) is designed to mitigate contamination risk to the main ROV hydraulic system by providing a fully isolated hydraulic oil circuit. This Smart edition incorporates electrically remote-operated pressure regulation for enhanced control.

The Smart Dirty Work Pack is an Isolated Hydraulic Power Unit (IHPU) that integrates easily into existing ROV hydraulic systems, supplying isolated hydraulic power to tooling and equipment with a high contamination risk.

The unit features a variable-displacement pump with selectable displacement from 16 to 28 cm<sup>3</sup>/rev. Integration with the ROV is straightforward, requiring only supply, return, and drain connections to an ROV valve pack function. The DWP can be supplied as a complete system including oil filters and reservoirs/compensators, and may be configured as a rear-mounted backpack or belly-skid installation

## Typical Operations

- Integrated Electrical Pressure Control
- Pressure sensor
- Solid, Compact and Reliable Design
- Up to 345 Bar
- Rated to full ocean depth

## Features

- Subsea HPU Systems
- Subsea Reservoir Systems
- Chemical Injection
- Subsea Tooling
- Subsea RWOCS System
- Subsea Excavators
- Trenchers

□ The specification details are illustrative for marketing purpose only. Actual equipment may be different as a result of product improvement or other reasons. Specific interface and performance information should be reconfirmed at time of order placement. Envirent AS, Robotvegen 16, 4340 Bryne, +47 477 77 500, sales@envirent.no

# SPECIFICATIONS

## SMART DIRTY WORK PACK

### General Technical Specifications

Type	Smart Dirty Work Pack
Part Number	112201
Dimensions L x W x H	212 mm x 533 mm x 243 mm
Weight in air / submerged	42 kg / 32 kg
Depth Rating	6000 MSW (Full Ocean Depth)
Operating Temperature	-10°C / +60°C (14°F / 122 °F)

### Hydraulic Specifications

Pump Displacement	16-28 cm <sup>3</sup> /rev
Max. Supply Pressure	210 Bar / 3000 psi
Max Supply Flow	90 L/min
Max. Output Flow @ 210 Bar	30-80 L/min
Max. Output Pressure	345 Bar

\*\* Please contact us for information regarding fluid compatibility.

### Hydraulic Interface

Connection Motor Supply Port	3/4" SAE Code 62 (6000PSI) ISO6162
Connection Motor Return Port	3/4" SAE Code 62 (6000PSI) ISO6162
Connection Motor Drain Port	M22 x 1.5 Female (Jic 6)
Connection Pump Pressure Port	3/4" SAE Code 62 (6000PSI) ISO6162
Connection Pump Suction Port	1-1/4" SAE Code 61 (3000PSI) ISO6162
Connection Pump Drain Port	G 1/2" BSP Female
Bellhouse Fill Port	SWG SS-QC4-B-400 Female

### Electrical Interface

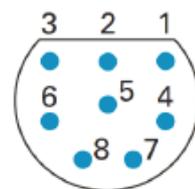
Nominal Voltage	20...30VDC
Signal Type	Ethernet
Connector	55 Series, Shell Size 15, 8-Pins

### Pin-out

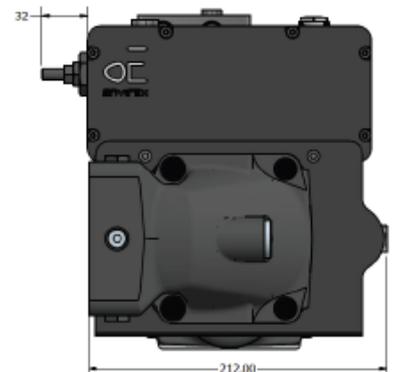
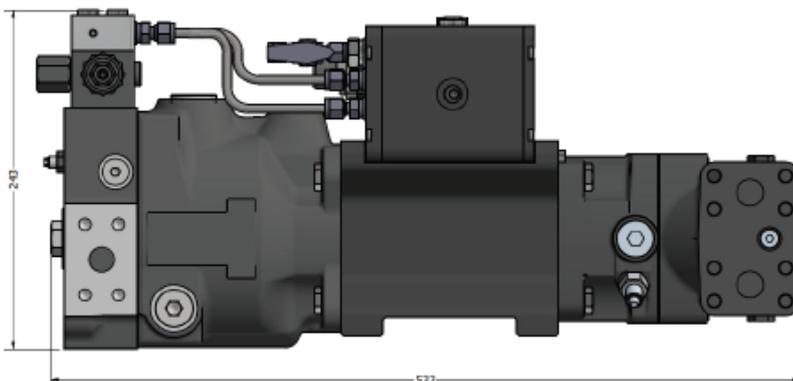
#### PWR & COMS

- Pin 01 – 0 VDC
- Pin 02 – 24 VDC
- Pin 03 – RS 485 +
- Pin 04 – RS 485 -
- Pin 05 – TX +
- Pin 06 – TX -
- Pin 07 – RX +
- Pin 08 – RX -

### Connector Face View



### Dimensions



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# SPECIFICATIONS

## SMART DIRTY WORK PACK

### Inventory List:

Items listed in Inventory List are delivered with the equipment as standard. Any additional equipment must be specified upon order.

Item	Description	Total Qty	PN
1.	Hydraulic Hose 1/2" SAE – Jic 12, SS. 4m.	2	
2.	Hydraulic Hose 3/8" Jic 6 – Jic 6, SS. 4m	1	
3.	Cable Subsea Pigtail Scorpion 55A1-1508. 5m	1	V100163
4.	Computer Laptop ink VJU Software	1	V101359
5.			
6.			
7.			
8.			
9.			
10.			

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