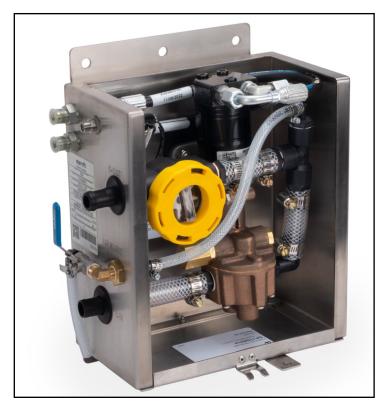


## Compu-Spread PWS 14.7 (R987521932)

## Pre-Wetting Module, variable liquid application rate

Preliminary V02: 08.201X



Closed loop variable rate pre-wetting module uses dedicated proportional hydraulic valve to control liquid application rates for direct liquid application or application on to granular material.

Applying liquid to a granular material before spreading is a commonly used process in modern Snow & Ice Control. Rexroth PWS modules make use of the vehicle's hydraulic system to power a hydraulic motor, which in turn drives a gear pump that moves the pre-wetting liquid selected to the application spray bar or spray nozzles. Rexroth offers different methods to control the flow rate of the pre-wet fluid to be applied. Our spreader controllers are matched to these pre-wet modules to ensure quick integration into the complete Snow & Ice control package.

The PWS 14.7 requires a dedicated proportional hydraulic valve to vary the flow rate to the hydraulic motor, which in turn varies the flow rate of the pre-wet liquid. This valve can be a dedicated section of a Rexroth M4 bankable valve assembly, or a proportional cartridge valve in our compact SCB manifold series.

When connected to the appropriate Rexroth closed loop

controller, the integral purpose-built flow meter ensures the user that the desired pre-wet flow rate is being applied regardless of system conditions, and provides system protection as well as an alarm in the case of "no liquid" or external damage to the system. Process data logging is standard at Rexroth, allowing real-time or post event analysis and reporting of storm or season totals.

All PWS modules are integrated into a stainless steel enclosure for compactness, durability and protection against the elements. The enclosure design guarantees quick access for any service requirements. All fittings and hardware are selected or designed to resist the effects of corrosion and vibration.

Rexroth has a suite of products to complete your Pre-wet system, including reservoirs, spray bars, nozzles, plumbing kits and filler and flushing kits.

## Pre-Wet module PWS 14.7 (R987521932)

## Specifications—hydraulic

Nominal operating pressure100 bar1500 psiMaximum operating pressure140 bar2000 psiMaximum inlet flow rate27 L/min7 USGPM

Fluid Mineral oil or ATF

Fluid cleanliness recommendation per ISO 4406 (c): 19/17/14

Fluid viscosity 15 to 400 cSt (20 to 43 preferred) 70 to 2000 SUS (100 to 200 preferred)

-Pre-wet circuit

Pump design and pressure setting Gear type, bronze housing with integral Gear type, bronze housing with integral

relief set at 2 bar

Pre-wet liquid flow rate 0 to 37 L/min 0 to 10 USGPM

Integral Pre-wet liquid flow meter Input voltage 4.5 to 24 VDC Output signal 4.5 to 24 VDC pulsed, de-

pendent on flow rate, specially configured

for this application

relief set at 30 psi

Fluid Connections—hydraulic

Motor feed (P) and exhaust (T) ports #6 JIC 37° flare

-Pre-wet circuit

Pump inlet (C-IN) & discharge (C-OUT) 3/4" male hose barb, PVC

Air bleed, with shut-off valve 1/4" hose

**Electrical Connection** 

Pre-wet liquid flow meter (at enclosure) M12, 4 pin connector

**Dimensions** 

Overall (H x W x D), including mounting 369 x 325 x 205 mm 14.5 x 12.8 x 8 inches

Weight (assembly) 12 kg 26.6 pounds

**Environmental** 

Operating temperature (determined by pre- -30° to 80°C (-7° to 60° preferred) -20° to 180° F (20° to 140° preferred)

wet gear pump)

Module enclosure is of stainless steel, suitably sealed and held closed with a rubber hood latch. Maintaining the module in this enclosure will extend the life of all components and surfaces exposed to the harsh environment found in snow and ice control applications. This module is designed and built for use with pre-wet liquids commonly used in these applications. Please contact Bosch Rexroth Canada for any express compatibility approval requirement.

N.B. All dimensions are approximate, intended for illustrative purposes only. Request a certified drawing before beginning construction or installation.

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