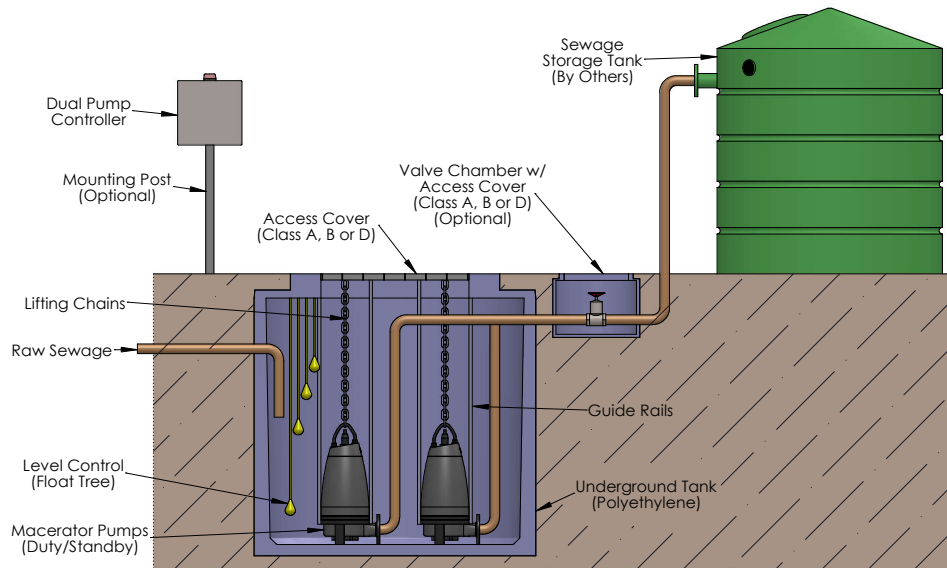# PRODUCT DATA SHEET

Packaged Sewage Pump Station (PSPS)

water | wastewater | sewage

OVERVIEW

MAK Water's Packaged Sewage Pump Stations (PSPS) are designed to receive raw domestic strength sewage into a below ground collection tank. The raw sewage is macerated to ≤ 2mm particle size, before discharging to a wastewater treatment plant for treatment. The standard package includes a polyethylene tank with access cover and all required PVC pipework, valves and fittings, dual macerator pumps, lifting chains and guide rails, dual pump controller and float level switches.

A range of common flow rates and tank sizes are provided to suit most wastewater applications. Optional equipment upgrades are available, including tank and access cover materials and a valve chamber; if required.

STANDARD SPECIFICATIONS

Parameter	Units	PSPS-01	PSPS-02	PSPS-03	PSPS-04	PSPS-06	PSPS-09
Pump flow rate*[1]	L/s	1	2	3	4.5	6	9
Pump discharge pressure*[1]	mH$_2$O	18	12.5	14.8	22	18.8	20.5
Tank capacity (nominal)	L	1,200 / 1,800 / 2,780 / 3,150					
Tank dimensions (approx.)	mm	1,200L: Ø1,100 x 1,665(h)					
		1,800L: Ø1,400 x 1,530(h)					
		2,780L: Ø1,400 x 2,150(h)					
		3,150L: Ø1,400 x 2,400(h)					
Tank (and optional valve chamber) access cover	Class A	Pedestrian traffic, nominal load 330 kg					
	Class B*[2]	Occasional light vehicle traffic, nominal load 2,670 kg					
	Class D*[2]	Slow moving commercial vehicle traffic, nominal load 8,000 kg					
Raw sewage inlet	-	Domestic strength					
Macerated sewage outlet	-	≤ 2mm particle size					
Ambient design temperature	°C	max. 60					
Power supply	-	AC 415 V, 3 Phase, 50 Hz					
Control panel IP rating	-	IP56 (higher IP rating available on request)					
Pump motor (each)	kW	1.1	1.1	1.7	4.4	4.4	7.4

*[1]Nominal flow/pressure, refer to pump curve for duty specific sizing *[2]Requires concrete support slab

STANDARD INCLUSIONS + OPTIONS

✓= Standard Supply   o = Optional Supply

Equipment		PSPS-01	PSPS-02	PSPS-03	PSPS-04	PSPS-06	PSPS-09
Duel macerator wastewater pumps		✓	✓	✓	✓	✓	✓
Discharge pipework (PVC, Class 12) with isolation and check valve for each pump		✓	✓	✓	✓	✓	✓
Guide rails, lifting chains, nuts and bolts in SS316		✓	✓	✓	✓	✓	✓
Tank materials	PE	✓	✓	✓	✓	✓	✓
	Custom (e.g. FRP, concrete)	o	o	o	o	o	o
Tank access cover	Class A	✓	✓	✓	✓	✓	✓
	Class B	o	o	o	o	o	o
	Class D	o	o	o	o	o	o
Valve chamber	With class A access cover	o	o	o	o	o	o
	With class B access cover	o	o	o	o	o	o
	With class D access cover	o	o	o	o	o	o
Control panel in powder coated mild steel, with inner door and removable gland plate	Mains isolator and individual pump isolation	✓	✓	✓	✓	✓	✓
	Circuit breaker protected low voltage control and input circuitry	✓	✓	✓	✓	✓	✓
	Contactor and thermal overload protection of pumps	✓	✓	✓	✓	✓	✓
	Electronic short and overload protection of strobe/buzzer	✓	✓	✓	✓	✓	✓
	Visual and audible alarm, with mute/reset/test button	✓	✓	✓	✓	✓	✓
	Keypad with indicator lights for power on, level alarm, pump run/fault	✓	✓	✓	✓	✓	✓
	Auto/off/manual operation of pumps	✓	✓	✓	✓	✓	✓
	Maximum run timer and auto alternation of pump duty	✓	✓	✓	✓	✓	✓
	Volt free output (VFC) for common fault	✓	✓	✓	✓	✓	✓
	Additional VFC output card (for high/low level & pump run signals)	o	o	o	o	o	o
	Mounting post (HDG)	o	o	o	o	o	o

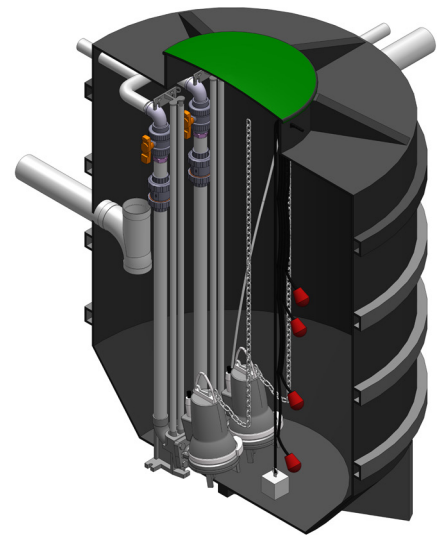| Instrumentation		Included
Level control float tree	Level switch - start	✓
	Level switch - stop	✓
	Level switch – high alarm	✓
	Level switch – low alarm	✓

MODEL SELECTION

01 1 L/s Pump flow rate
02 2 L/s Pump flow rate
03 3 L/s Pump flow rate
04 4.5 L/s Pump flow rate
06 6 L/s Pump flow rate
09 9 L/s Pump flow rate
XX Custom pump flow rate

    1 Tank size - 1,200L
    2 Tank size - 1,800L
    3 Tank size - 2,780L
    4 Tank size - 3,150L
    C Tank size - custom

      X Tank material - PE
      C Tank material - custom

        A Access cover - class A
        B Access cover - class B
        D Access cover - class D

          X Valve chamber - without
          A Valve chamber - with class A access cover
          B Valve chamber - with class B access cover
          D Valve chamber - with class D access cover

            X Additional VFC output card - without
            E Additional VFC output card - included

              X Control panel mounting post - without
              P Control panel mounting post - included

                X Specifications - standard
                C Specifications - custom

PSPS _ _ _ _ _ _ _ _ _

NEED A QUOTE?

COMPLETE THIS TABLE AND EMAIL TO...

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