

# 1600L PACKAGED PUMP STATIONS

## QUBEX 1600 SERIES

The QubeX 1600 Series is tailored for large commercial applications and extensive residential estates, offering superior waste management solutions. With their enhanced capacity and powerful REEFE pump options, these stations can effortlessly support the demands of substantial commercial operations, large-scale residential developments, or agricultural settings, ensuring efficient and effective wastewater handling.

### APPLICATIONS

- Sewage
- Stormwater
- Greywater
- Holding tank

### FEATURES & BENEFITS

- Lightweight
- Can be deepened with risers
- NSW health approved

### CONSTRUCTION

- Sturdy rotomoulded polyethylene
- REEFE pumps pre-installed
- Ease pump maintenance with cam-lock connections
- Available with a wide range of access covers and grates

MODEL	PUMP MODEL	PUMP SPECIFICATIONS	VOLTS	SINGLE / DUAL PUMPS	CONTROLLER
<b>VORTEX PUMP STATIONS</b>					
Q16S-V18H	RVS155	Page 38	240V	Single Pump	High Level Alarm
Q16D-V18			240V	Dual Pumps	Dual Pump
Q16S-V25H	RVS200	Page 40	240V	Single Pump	High Level Alarm
Q16D-V25			240V	Dual Pumps	Dual Pump
Q16S-V40H	RVS300	Page 40	240V	Single Pump	High Level Alarm
Q16D-V40			240V	Dual Pumps	Dual Pump
Q16S-VC26H	RVC260	Page 41	240V	Single Pump	High Level Alarm
Q16D-VC26			240V	Dual Pumps	Dual Pump
Q16S-VC32H	RVC315	Page 42	240V	Single Pump	High Level Alarm
Q16D-VC32			240V	Dual Pumps	Dual Pump
Q16S-V68H	RVS680A	Page 43	240V	Single Pump	High Level Alarm
Q16D-V68			240V	Dual Pumps	Dual Pump
Q16S-V68.3	RVS720M-3	Page 43	415V	Single Pump	Single Pump
Q16D-V68.3			415V	Dual Pumps	Dual Pump
Q16S-V85	RVS850M-3	Page 44	415V	Single Pump	Single Pump
Q16D-V85			415V	Dual Pumps	Dual Pump
Q16S-HV40H	RHV180	Page 44	240V	Single Pump	High Level Alarm
Q16D-HV40			240V	Dual Pumps	Dual Pump
Q16S-HV75H	RHV220	Page 44	240V	Single Pump	High Level Alarm
Q16D-HV75			240V	Dual Pumps	Dual Pump
<b>GRINDER PUMP STATIONS</b>					
Q16S-G055H	RGM055A	Page 50	240V	Single Pump	High Level Alarm
Q16D-G055			240V	Dual Pumps	Dual Pump
Q16S-EG15H	REG015	Page 53	240V	Single Pump	High Level Alarm
Q16D-EG15			240V	Dual Pumps	Dual Pump
Q16S-G11H	RGS11	Page 51	240V	Single Pump	High Level Alarm
Q16D-G11			240V	Dual Pumps	Dual Pump
Q16S-G15H	RGS15	Page 51	240V	Single Pump	High Level Alarm
Q16D-G15			240V	Dual Pumps	Dual Pump
Q16S-G22	RGS22M	Page 51	415V	Single Pump	Single Pump
Q16D-G22			415V	Dual Pumps	Dual Pump
Q16S-G37	RGS37M	Page 51	415V	Single Pump	Single Pump
Q16D-G37			415V	Dual Pumps	Dual Pump

MODEL	PUMP MODEL	PUMP SPECIFICATIONS	VOLTS	SINGLE / DUAL PUMPS	CONTROLLER
<b>CUTTER PUMP STATIONS</b>					
Q16S-CE90H	RCE90	Page 45	240V	Single Pump	High Level Alarm
Q16D-CE90			240V	Dual Pumps	Dual Pump
Q16S-CE16H	RCE160		240V	Single Pump	High Level Alarm
Q16D-CE16			240V	Dual Pumps	Dual Pump
Q16S-C75H	RIC075	Page 52	240V	Single Pump	High Level Alarm
Q16D-C75			240V	Dual Pumps	Dual Pump
Q16S-C15H	RIC150A		240V	Single Pump	High Level Alarm
Q16D-C15			240V	Dual Pumps	Dual Pump
Q16S-C15.3	RIC150.3	415V	Single Pump	Single Pump	
Q16D-C15.3		415V	Dual Pumps	Dual Pump	
Q16S-C22.3	RIC220.3	415V	Single Pump	Single Pump	
Q16D-C22.3		415V	Dual Pumps	Dual Pump	

<b>DRAINAGE PUMP STATIONS</b>					
Q16S-D75H	RDP075	Page 48	240V	Single Pump	High Level Alarm
Q16D-D75			240V	Dual Pumps	Dual Pump
Q16S-D15H	RDP150		240V	Single Pump	High Level Alarm
Q16D-D15			240V	Dual Pumps	Dual Pump
Q16S-D15.3	RDP150.3	415V	Single Pump	Single Pump	
Q16D-D15.3		415V	Dual Pumps	Dual Pump	
Q16S-D28	RDP228	415V	Single Pump	Single Pump	
Q16D-D28		415V	Dual Pumps	Dual Pump	
Q16S-D37	RDP370	415V	Single Pump	Single Pump	
Q16D-D37		415V	Dual Pumps	Dual Pump	
Q16S-D55	RDP550	415V	Single Pump	Single Pump	
Q16D-D55		415V	Dual Pumps	Dual Pump	

**ACCESS COVER OPTIONS**

Pump Stations are supplied standard with Poly Pedestrian Access Covers unless requested otherwise. Add the following (CB), (CD), (GB) or (GD) to the end of the code for other Access Options. E.G. P7D-V55(CB)

<b>CB</b>	Class B Access Cover	<b>CD</b>	Class D Access Cover	Other classes available
<b>GB</b>	Class B Access Grate	<b>GD</b>	Class D Access Grate	

**CONFIGURATION**

Pumps are supplied standard Freestanding unless requested otherwise. If Guide Rail Systems are required add (GR) to the end of the code.

**CONTROLLERS**

Varying Controller options available (Stainless Steel, SMS Alarms, BMS Systems, Inner Door Enclosures). Pump Stations are supplied standard with Outer Door Pump Controllers unless requested otherwise.



## PACKAGED PUMP STATIONS

The REEFE Packaged Pump Stations are carefully designed and specified to suit the customers requirements. The complete range of REEFE Vortex, Grinder, Cutter & Drainage Pumps are carefully selected to meet the 'required duty' as specified for each project. When a duty is not specified, all the necessary friction loss and velocity calculations are completed, based on the information provided, to ensure years of hassle free pumping. The quality of all the componentry included in the REEFE Pump Stations ensures that you can save time, giving absolute confidence at time of installation on site.

## POLY PUMP WELLS

Polyethylene pump wells are strong, lightweight and UV resistant rotomoulded tanks. Suitable for above ground usage providing they are stabilised or tied down.

All tanks are engineered to Australian standard AS 1546, approved by NSW Health, and covered by a 5yr warranty.

Available in sizes from 250L - 5000L.



### ACCESS COVERS

A large range of access covers and grates available for every location from domestic backyards to highways and airports. See page 66 for more information.

### CONTROL PANELS

A complete range of controllers from a simple high level alarm to triplex pump controllers as well as SMS alarm senders, BMS integration and other customised options.

### PUMPS

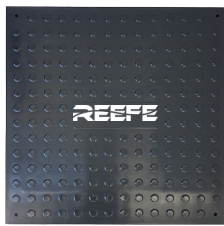
Wide range of pumps for commercial and domestic applications for stormwater, sewage and greywater. We offer single, dual and triplex options in both single phase and 3 phase options.

## ACCESS COVERS & GRATES

Access covers and grates are designated by classes A, B, C, D, E, F and G according to load capacity as set out in the table below. The design loads as specified below, may be used as a guide it is critical that you consult a qualified engineer or designer to ensure the correct class is chosen. The appropriate class for a cover or grate depends upon the place of installation. Some places of installation, relative to class, are outlined below. The selection of the appropriate class is the responsibility of the designer and where there is doubt the stronger class shall be selected.

### Load Classifications of Covers and Grates AS3996:2006 – Access Covers, Road Grates & Frames

RATING	CLASS A	CLASS B	CLASS C	CLASS D	CLASS E	CLASS F	CLASS G
<b>Typical Use</b>	Areas (including footways) accessible only to pedestrians and pedal cyclists, and closed to other traffic (extra light duty)	Areas (including footways and light tractor paths) accessible to vehicles (excluding commercial vehicles) or livestock (light duty)	Malls and areas open to slow moving commercial vehicles (medium duty)	Carriageways of roads and areas open to commercial vehicles (heavy duty)	General docks and aircraft pavements (extra heavy duty - E)	Docks and aircraft pavements subject to high wheel loads (extra heavy duty - F)	Docks and aircraft pavements subject to very high wheel loads (extra heavy duty - G)
<b>Nominal Wheel Loading (kg)</b>	330	2,670	5,000	8,000	13,700	20,000	30,000
<b>Serviceability Design Load (kN)</b>	6.7	53	100	140	267	400	600
<b>Ultimate Limit State Design Load (kN)</b>	10	80	150	210	400	600	900



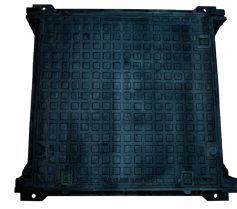
CLASS A POLY COVER



CLASS B COMPOSITE COVER



CLASS B GRATE & FRAME



CLASS D COVER

CODE	DESCRIPTION	CLASS	MATERIAL	TYPE	NOMINAL SIZE
13151	Class A Poly Cover	A	Poly	Cover	600 x 600mm
17036	Class B Composite Cover & Frame	B	Composite	Cover	600 x 600mm
26861	Class D Cast Iron Access Cover & Frame	D	Cast Iron	Cover	600 x 600mm
25376	Class B Composite Cover & Frame	B	Composite	Cover	600 x 900mm
26878	Class D Cast Iron Access Cover & Frame	D	Cast Iron	Cover	600 x 900mm
25352	Class A Galvanised Grate & Frame	A	Galvanised	Grate	600 x 600mm
25369	Class B Galvanised Grate & Frame	B	Galvanised	Grate	600 x 600mm
25604	Class B Galvanised Grate & Frame	B	Galvanised	Grate	600 x 900mm
28490	Class D Galvanised Grate & Frame	D	Galvanised	Grate	600 x 600mm
25383	Class D Galvanised Grate & Frame	D	Galvanised	Grate	600 x 900mm

**NOTES:**

- Nominal wheel loads are given for guidance only. Consideration should be given to the type, size and pneumatic pressure of the load applied.
- Class B design loads exceed AS 5100.2 requirements for footway loading.
- Class D design loads exceed AS 5100.2 requirements for a W80 wheel load.
- Class C units are based on intermediate load.
- The serviceability load is set at 2/3 of the ultimate limit state design load.
- A force of 1 kN approximately equal to the weight of 100kg.

**Other options available on request including:**

Concrete mill covers, multi-part covers, paver infill covers, tile infill covers, stainless steel or brass edged covers, round covers, gas light covers, bolt down covers

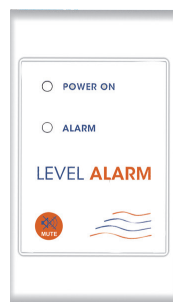
## CONTROLLERS, FLOATS & PROBES

### HIGH LEVEL ALARMS

Refer page 112



**OUTDOOR**



**INDOOR**



**BATTERY BACKUP & SOLAR**

### COMPAKT SINGLE & DUAL PUMP CONTROLLER

Refer page 114

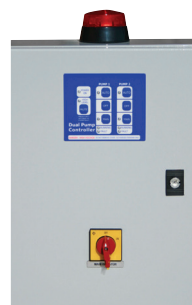
- Single 0.1 - 16 Amps
- Dual 0.1 - 16 Amps
- 240V only
- Outer door only
- Up to 4 floats



### COMMERCIAL SINGLE & DUAL PUMP CONTROLLER

Refer page 115

- Single and dual options
- 240V or 415V
- Inner door or outer door
- Up to 4 floats



**OUTER DOOR**

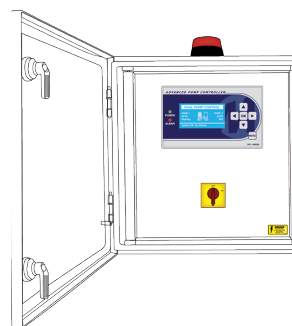


**INNER DOOR**

### CUSTOMISED PUMP CONTROLLERS

Refer page 116

- Triplex pump controller
- Advanced pump controller
- BMS module
- Remote status indicator
- SMS alarm sender



### FLOATS & PROBES

Refer page 118

- Wide range of floats and probes
- Available in various lengths from 5m to 30m
- Longer lengths available upon request



**FLOAT**



**HYDRAULIC TRANSDUCER**



**COUNTERWEIGHT**