**COLD WATER BOOSTER SET (ScubaTANK® by Dutypoint Systems)**

Supply and install in the position shown on the drawings [1] No WRAS approved Scuba**TANK®** integrated pump and tank booster system[s] by

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[Quote ref. number: ]

Water shall be boosted to provide a minimum of XXX litres per second at XXX bar pressure [at the top floor outlets]. The capacity of the storage cistern[s] [is/are] to be [175/375/490/650/800/1050/1250/1650/2250] litres.

[The system is to provide Category 5 backflow protection with Type ‘AB’ Air gap.]

The unit is to be provided with [single/twin] pump[s] arranged on a [duty/standby - duty/assist] basis.

The Scuba**TANK®** tank will be a GRP pre-insulated type with reinforced base, screened vent, overflow and warning pipe (if applicable), all in accordance with the Water Regulations Advisory Scheme (WRAS).

The unit will incorporate the following:

WRAS Approved stainless steel submersible pump(s) controlled via variable speed inverter drive(s)

High flow 1” Solenoid controlled inlet valve

Stainless steel pump control vessel

Low water level protection and tank fill controlled via level probe system

Common fault alarm volt-free contact

Digital system status display

Integrated Control Centre for power and controls wiring and distribution

WRAS Approval for the complete system

Tank overflow shall discharge to the plant room gulley or suitable tundish with HepvO waterless trap.

Pumps to be close-coupled submersible multistage pumps with stainless steel casing, stainless steel impellers, stainless steel shaft, water lubricated rubber bearings, neck rings and double mechanical seal (Carbon/Ceramic/NBR).

Integral pre-wired control compartment within IP54 rated protecting enclosure, with front access, necessary labels and numbered terminals.

The inverter[s] are to be designed to control the pumps on a [duty/standby - duty/assist] basis (if twin pump configuration), monitoring the system pressure via transducers (one per pump/inverter) mounted on the pipeline. The inverters have inbuilt PID control allowing a set point pressure to be maintained by speeding the pumps up when the pressure falls below the set point and slowing them down when the pressure rises above the set point. During periods of inactivity, the inverter senses the stagnant pressure and reduces the speed of the pump and after a time delay puts the pumps into sleep mode, waking up when the demand picks up and returning to PID control.

The pump sets, valves and pipe manifold together with the control panel and pressure vessel will be fully assembled with all interconnecting wiring between electrical components carried out by the manufacturer.

The unit shall be commissioned by the manufacturer and covered by the Dutypoint Titanium Warranty and breakdown cover. The commissioning report is to be included in the maintenance manual.