

## *QCL Series Vertical Ultrasonic Washing Machine*



With a vertical rotary drum structure, the machine adopts mechanical hands to clamp and turn bottles, whilst the spray tube carries out the reciprocating tracking process. Taking advantage of the ultrasonic washing and water & gas alternating jetting washing, the whole automatic production process includes bottle feeding, ultrasonic washing, external washing, internal washing and bottle discharging. The overall transfer process simulates the gear external engagement principle. The machine has features such as low bottles' breakage rate, good adaptability and stable running while there is no cross contamination of water and gas pipes, so the machine fully meets the GMP requirements.

### **Features**

- ◆ The two-section mesh belt structure is adopted for bottle feeding to ensure that the bottles have sufficient thrust in water and no bottle shortage will occur at the screw.
- ◆ The buffer device is set at the screw bottle feeding place to ensure no bottle breakage at the bottle feeding place and the wear of screw. The screw is made of innoxious and pollution-free polyformaldehyde. The central shaft is made of stainless steel for further reinforcement in order to ensure no deformation of the screw.
- ◆ It is provided with a device that prevents the needle holder from shaking to enhance the accuracy of the spray needle's insertion into the bottle and reduce the occurrence of needle breakage.
- ◆ The extended rod of the mechanical hand and the large disc are provided with the oil leakage prevention structure to ensure that the lubrication oil will not pollute the water tank.

## Technical Parameters

Model	Applicable specifications (ml)	Output (Bottle/min)	Water consumption	Gas consumption	Overall dimensions (L × W × H)(mm)	Weight (kg)	Power supply	Power (kw)
<b>QCL60</b>	1-20(Ampoule) 2-25(Vial, Oral liquid)	200-300	0.4-0.6m <sup>3</sup> /h 0.2-0.3mpa	40-50m <sup>3</sup> /h 0.25-0.35mpa	2099×2003×1169	2000	380V/50Hz	17.6
<b>QCL80</b>	1-20(Ampoule) 2-25(Vial, Oral liquid)	150-400	0.6-0.8m <sup>3</sup> /h 0.2-0.3mpa	50-60m <sup>3</sup> /h 0.25-0.35mpa	2260×2260×1327	2400	380V/50Hz	17.6
<b>QCL100</b>	1-20(Ampoule) 2-25(Vial, Oral liquid)	200-500	0.8-0.9m <sup>3</sup> /h 0.2-0.3mpa	55-65m <sup>3</sup> /h 0.25-0.35mpa	2099×2003×1169	2000	380V/50Hz	17.6
<b>QCL120</b>	1-20(Ampoule)	250-600	0.9-1m <sup>3</sup> /h 0.2-0.3mpa	65-75m <sup>3</sup> /h 0.25-0.35mpa	2260×2260×1327	2400	380V/50Hz	17.6
<b>QCL120X</b>	1-20(Ampoule)	700	1-1.3m <sup>3</sup> /h 0.2-0.3mpa	75-90m <sup>3</sup> /h 0.25-0.35mpa	2260×2260×1327	2400	380V/50Hz	17.6
<b>QCL12</b>	50-500(Large volume)	80-100	0.4-0.5m <sup>3</sup> /h 0.2-0.3mpa	20-30m <sup>3</sup> /h 0.25-0.35mpa	2100×1735×1330	1200	380V/50Hz	12
<b>QCL40</b>	25-100(Vial)	140-200	0.4-0.5m <sup>3</sup> /h 0.2-0.3mpa	40-50m <sup>3</sup> /h 0.25-0.35mpa	2099×2035×1350	2000	380V/50Hz	17.6
<b>QCL160</b>	2-25(Vial)	400-540	0.9-1m <sup>3</sup> /h 0.2-0.3mpa	65-75m <sup>3</sup> /h 0.25-0.35mpa	2475×2350×1350	2500	380V/50Hz	17.6
<b>QCL180</b>	1-5(Ampoule)	600-700	0.8-0.9m <sup>3</sup> /h 0.2-0.3mpa	60-65m <sup>3</sup> /h 0.25-0.35mpa	2009×2035×1350	2000	380V/50Hz	17.6