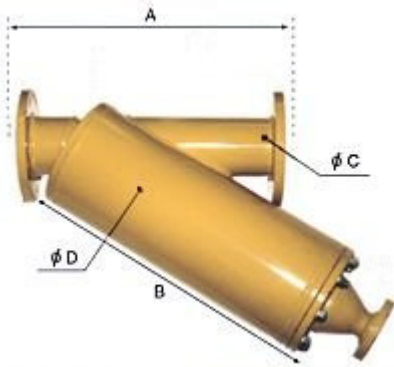
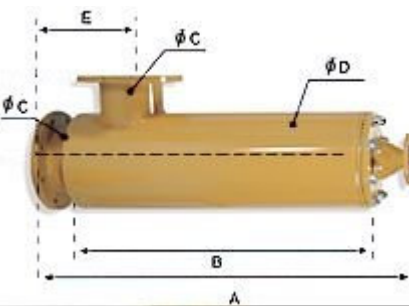


# ATCS Components



## ► Inline Trapping Unit

The trapping unit is mounted in-line with a condenser's output pipe. Utilizing a built-in screen with openings smaller than the balls, the balls are prevented from being carried to and lost in the cooling tower.

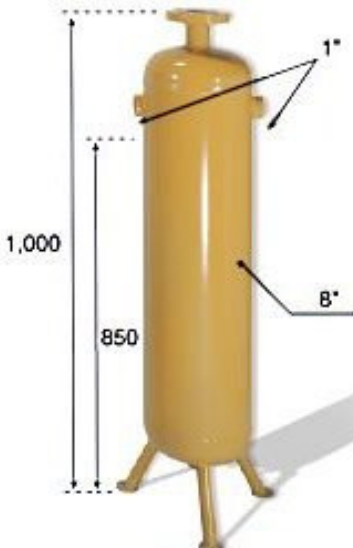


## ► Angular Trapping Unit

The trapping unit is mounted in-line with a condenser's output 90° pipe. Utilizing a built-in screen with openings smaller than the balls, the balls are prevented from being carried to and lost in the cooling tower.

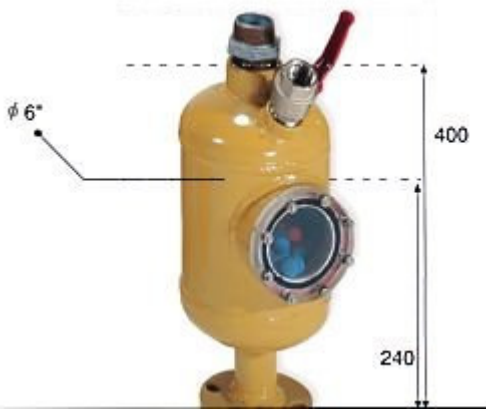
Trap	A	B	C	D
CQ-3	450	350	3"	6"
CQ-4	550	500	4	8
CQ-6	650	770	6"	10"
CQ-8	800	950	8"	12"
CQ-10	1010	1200	10"	16"
CQ-12	1200	1300	12"	18"
CQ-14	1350	1330	14"	20"
CQ-16	1500	1500	16"	24"
CQ-20	1850	1800	20"	28"

Trap	A	B	C	D	E
CQ-3	585	350	3"	6"	170
CQ-4	740	500	4"	8"	180
CQ-6	1017	770	6"	10"	230
CQ-8	1217	950	8"	12"	270
CQ-10	1470	1200	10"	16"	380
CQ-12	1610	1300	12"	18"	467
CQ-14	1645	1330	14"	20"	540
CQ-16	1850	1500	16"	24"	610
CQ-20	2220	1800	20"	28"	760



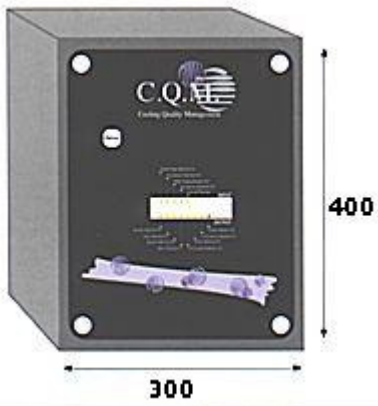
## ► Injector

The injector uses air pressure from a compressor to force water carrying the sponge balls into the main water flow via the inlet pipe. The sponge balls flow at high speed through the condenser tubes and wipe the tubes clean.



► **Collector**

After the sponge balls have completed their cycle and have been caught in the trapping unit, the PLC controller opens the drain valve. This causes air from inside the injector to be released resulting in an intense flow of water towards the collector. Balls are carried to the collector (their base station) where they are cleaned by a process that scrubs them against a screen at the collector's bottom and then kept until the next cycle. The collector is constructed with an observation window allowing the operator to monitor the condition and amount of balls.



► **PLC Controller**

The PLC Controller manages the overall operation of the ATCS by controlling valves through pre-programmed cycles.