

## FURNACE DIMENSIONS AND SPECIFICATIONS

We have in total 10 Gas fired multiple zone furnaces, all charger loaded and controlled with up to date programmable digital controllers and monitored on digital temperature recorders.

Furnace atmosphere for all furnaces are products of combustion and are neutral to slightly oxidizing.

All furnaces are surveyed annually to the latest API 6A specification, equivalent to ISO 10423 and API appendix P (2008).

**For Air Cool cycles** we are able to process loads up to 15 tonne in a working volume of 6.5M long x 2M wide x 1.2M high (48" high)

**For Water Quench cycles** we are able to process loads up to 10 tonne in a working volume of 4.5M long x 2M wide x 0.9M high (36" high)

**For Polymer Quench cycles** we are able to process loads up to 3 tonne in a working volume of 4.5M long x 2M wide x 0.6M high (24" high)

### NO 1 FURNACE (HT1)

**Working volume:** 4500mm long x 2000mm wide x 600mm high (180" long x 80" wide x 24" high)

**Operating Range:** 150°C to 700°C

**Furnace Control:** 2 zone furnace with programmable controller

**Maximum Load:** 10 tonne

### NO 2 FURNACE (HT1)

**Working volume:** 4500mm long x 2000mm wide x 600mm high (180" long x 80" wide x 24" high)

**Operating Range:** 200°C to 1150°C

**Furnace Control:** 2 zone furnace with programmable controller

**Maximum Load:** 10 tonne

### NO 3, 4, 5 & 6 FURNACES (HT1)

**Working volume:** 4500mm long x 2000mm wide x 1200mm high (180" long x 80" wide x 48" high)

**Operating Range:** 200°C to 1250°C

**Furnace Control:** 8 zone furnace with programmable controller

**Maximum Load:** 10 tonne

### NO 7 & 8 FURNACES (HT2)

**Working volume:** 6500mm long x 2000mm wide x 1200mm high (252" long x 80" wide x 48" high)

**Operating Range:** 200°C to 1250°C

**Furnace Control:** 10 zone furnace with programmable controller

**Maximum Load:** 15 tonne

### NO 9 FURNACE (HT2)

**Working volume:** 6500mm long x 3000mm wide x 1600mm high (252" long x 118" wide x 63" high)

**Operating Range:** 200°C to 1250°C

**Furnace Control:** 8 zone furnace with programmable controller

**Maximum Load:** 15 tonne

### NO 10 FURNACE (HT2)

**Working volume:** 3000mm long x 2500mm wide x 1200mm high (252" long x 118" wide x 63" high)

**Operating Range:** 200°C to 1000°C

**Furnace Control:** 6 zone furnace with programmable controller

**Maximum Load:** 5 tonne

## WATER QUENCH (HT1)

**Working volume:** 4500mm long x 2000mm wide x 900mm high (180" long x 80" wide x 36" high)

**Working temperature:** 30°C Maximum

**Agitation:** Highly agitated above and below the load with oscillation

**Volume of water:** 67 m<sup>3</sup> Tank size = 5m long x 4m wide x 3.35m deep

**Temperature rise of water:** 2°C rise in water temp for every tonne quenched at 950°C

**Quench Transfer Time:** 60 seconds maximum

**Maximum Load:** 8 tonne

## WATER QUENCH (HT2)

**Working volume:** 6500mm long x 3000mm wide x 1600mm high (252" long x 118" wide x 63" high)

**Working temperature:** 30°C Maximum

**Agitation:** Highly agitated above and below the load with oscillation

**Volume of water:** 170 m<sup>3</sup> Tank size = 8m long x 5m wide x 4.5m deep

**Temperature rise of water:** 1°C rise in water temp for every tonne quenched at 950°C

**Quench Transfer Time:** 60 seconds maximum

**Maximum Load:** 15 tonne

## POLYMER QUENCH (HT1)

**Working volume:** 4500mm long x 2000mm wide x 600mm high (180" long x 80" wide x 24" high)

**Working temperature:** 25°C to 80°C

**Agitation:** Highly agitated above and below the load with oscillation

**Volume of Polymer:** 22m<sup>3</sup> Tank size = 5m long x 4m wide x 1.1m deep

**Temperature rise of Polymer:** 6°C rise in polymer temp for every tonne quenched at 950°C

**Quench Transfer Time:** 60 seconds maximum

**Maximum Load:** 6 tonne

## SURVEYS

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**All furnaces** are surveyed annually to the latest API 6A specification, equivalent to ISO 10423.

**Special surveys** such as NORSOK M650 can be obtained on request.

## PROCESS LOADS

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**For Air Cool cycles** we are able to process loads up to 15 tonne in a working volume of 6.5M long x 2M wide x 1.2M high (48" high).

**For Water Quench cycles** we are able to process loads up to 15 tonne in a working volume of 6.5M long x 2.8M wide x 1.6M high.

**For Polymer Quench cycles** we are able to process loads up to 6 tonne in a working volume of 4.5M long x 2M wide x 0.6M high (24" high).