

# FCT

## Open cooling towers



### Key benefits

- Corrosion resistant construction
- Low energy consumption
- Easy maintenance

#### Configuration

Counter flow

#### Fans system

Axial fan, induced draft

#### Capacity range

4 - 106 l/s (single cell)

#### Water distribution

Pressurised

#### Maximum entering water temperature

55°C standard fill  
80°C with alternative fill

#### Typical applications

- HVAC applications
- Small to medium industrial applications
- Dirty water applications
- Replacement of field erected towers with basinless units



## Corrosion resistant constructions

- High performance corrosion resistant construction: moulded heavy gauge [Fibreglass Reinforced Polyester \(FRP\)](#) with UV protection ensuring a long service life.

## Easy maintenance

- **Full cold water basin access** when removing the combined inlet shields. Easy basin access **from all sides**.
- Smooth gel-coat surface on cold water basin reduces biological growth and facilitates **easy cleaning**.
- Easy no-tool removable access door providing access to spray section, drift eliminators and drive components.
- **Easy removable** spray branch arms, nozzles, eliminators and combined inlet shields.
- **Removable** suction **strainer** anti-vortex hood.

## Low energy consumption

- Counterflow cooling tower with **high efficiency**, low horsepower axial fans.
- **Optimally selected** drives with VFD duty motors as standard.
- **Axial fan** uses half the energy of similar centrifugal fan units.

## Operational safety

- **Easy-clean and easy-inspect** FCT towers reduce hygiene risks from bacteria (eg Legionella) or biofilm inside.
- Combined inlet shields **block sunlight** to **prevent biological growth** in the tower, filter the air and **stop water splashing** outside.
- Optional [sump sweeper piping](#) prevents sediment collecting in the cold water basin.

**Interested in the FCT cooling tower for cooling your process water?** Contact your local [BAC representative](#) for more information.

## Downloads

- [FCT open cooling tower](#)

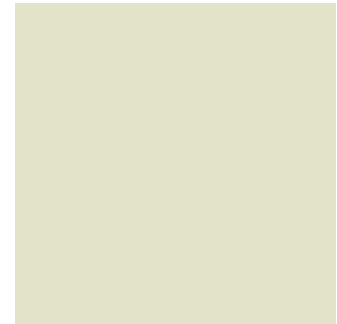


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### Principle of operation

Warm process **water (1)** from the heat source enters the **spray system (2)** at the top of the cooling tower where it is distributed over the **fill** or heat transfer media **(3)**. At the same time the **axial fan (4)**, located at the top of the unit, draws the **air** from the sides of the unit **(5)** over the fill. **Air inlet louvres (6)** protect the tower from debris being drawn into the unit. While the warm process water contacts the cold air the latter heats up and part of the process water is evaporated which removes the heat from the remaining water. The **sump (7)** or basin collects the cooled water after which it returns to the **heat source of the process (8)**. The warm saturated **air (9)** first passes through the **drift eliminators (10)**, which remove water droplets from the air, and then exits the tower at the top.



**You want to use the FCT cooling tower to cool your process water?**  
Contact your local [BAC representative](#) for more information.

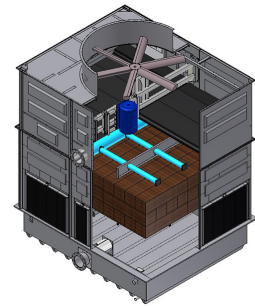
# FCT

## Open cooling towers

### Construction details

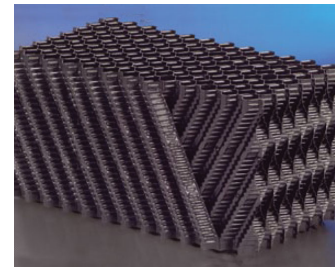
#### 1. Material options

- Structural panels and fan deck are made from hand-laid heavy duty **fibreglass reinforced polyester (FRP)**, with hot-dip galvanised fill and mechanical supports.
- **Option:** Stainless steel type 304 or 316 fill and mechanical supports for added corrosion resistance.
- Cold water basin: Mould formed, hand laid, heavy-duty **fibreglass reinforced polyester (FRP)** with smooth internal finish.
- **Option:** Tower without cold water basin for on-site **assembly on concrete tank**.



#### 2. Heat transfer media

- Our heat transfer media is cross fluted fill design in **easy to handle, lift and remove blocks**. Standard offering is a flame-retardant poly-vinyl chloride (PVC) material, with sheet spacing of 12mm or 19 mm for clear water applications
- Choose high-density polyethylene (HDPE) tube fill with 65mm spacing for dirty water applications.
- For operation above 55°C, try our **optional high temperature fill**, usable with intake water up to 65°C.



### 3. Air movement system

- **Direct-drive** models are fitted with aerofoil blade fans with an aluminium hub and injection-moulded glass reinforced composite blades.  
Larger units use **V-belt drives** with aerodynamically designed, extruded aluminium blade fans. This drive system consists of heavy duty bearings, steel shaft and pulleys.
- Our high efficiency **drift eliminators** come in UV-resistant plastic, which will not rot, decay or decompose. These are assembled in **easily handled and removable sections**, for optimal internal access and maintenance.
- Easy removable UV-resistant PVC **air inlet louvres** at air inlet, block sunlight to prevent biological growth in tower, filter air and stop water splash-out.



### 4. Water distribution system

These consist of:

- **Spray branches** with non-clog plastic **nozzles** secured by rubber grommets. **Tool free branch removal** for easy inspection and flushing.
- **Flanged** inlet and outlet connections.
- Easy accessible **cold water basin**, including anti-vortexing strainer, make up and overflow connection.



Interested in the FCT cooling tower? Contact your local [BAC representative](#).

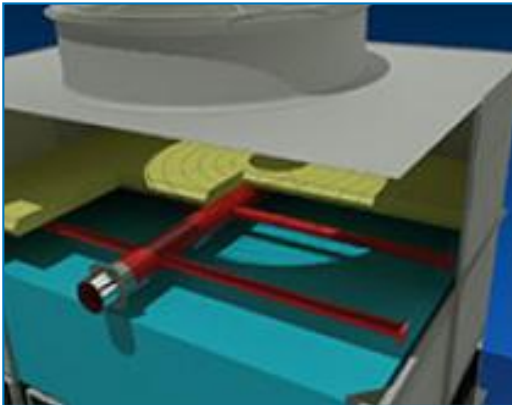


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### Options and accessories

Below is a listing of the main FCT options and accessories. If your required option or accessory is not listed, look no further than your [local BAC representative](#).



#### High temperature execution package

For high temperature applications, replace critical components in high temperature alternatives.



#### Whisper Quiet fan

Reduce fan noise even more with **very low sound factory-tested fans**. Whisper quiet fans are only available on **specific FCT models**. Please contact your [local BAC representative](#) to check availability.



## Electric water level control package

For **perfectly precise water level control**, replace the standard mechanical valve with our electrical water level controller.



## Motor removal davit

For **easy removal or lifting** of fan motor.



## External Ladder and Platform

A ladder and platform **facilitate access to the top of the unit** and safe inspection of your cooling tower.



## Basin heater package

Thanks to our factory-installed heaters, the water stays at 4°C and **never freezes**, even during equipments downtime and however cold it gets outside.



## Vibration cut out switch

When excessive vibration occurs, this switch shuts down the fan, ensuring your cooling equipment **operates safely**.



## Sump sweeper piping

Sump sweeper piping **prevents sediment collecting in the cold water basin** of the unit. A complete piping system, including nozzles, is installed in the basin of the tower **for connection to side stream filtration** equipment.



## Filter

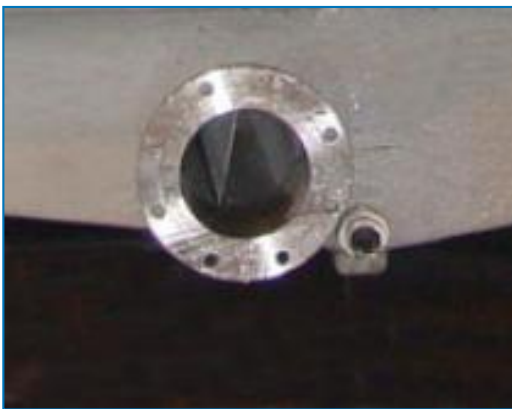
Separators and media filters efficiently **remove suspended solids** in the recirculating water, reducing system cleaning costs and optimizing water treatment results. Filtration helps you keep the recirculating water clean.





## Water treatment equipment

Devices to control water treatment are needed to ensure proper **cooling tower water care**. Not only does this help protect the components and fill pack, controlling corrosion, scaling and fouling, it also avoids the proliferation of harmful bacteria, including **legionella**, in the recirculating water.



## Flanges

Flanges facilitate **pipng connections** on-site.



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### Engineering data

**REMARK:** Do not use for construction. Refer to factory certified dimensions & weights. This page includes data current at time of publication, which should be reconfirmed at the time of purchase. In the interest of product improvement, specifications, weights and dimensions are subject to change without notice.

**Last update:** 30/06/2019

**FCT 092-554 - 3048-B4QV**



| Model                | Weights (kg)      |                   |                       | Dimensions (mm) |      |      | Air Flow (m³/s) | Fan Motor (kW) | Fluid Inlet ND (mm) | Fluid Outlet ND (mm) | Make Up ND (mm) |
|----------------------|-------------------|-------------------|-----------------------|-----------------|------|------|-----------------|----------------|---------------------|----------------------|-----------------|
|                      | Oper. Weight (kg) | Ship. Weight (kg) | Heaviest Section (kg) | L               | W    | H    |                 |                |                     |                      |                 |
| FCT 092-554 (SA)     | 275               | 125               | 95                    | 950             | 950  | 2230 | 2.1             | (1x) 0.55      | (1x) 80             | (1x) 80              | (1x) 20         |
| FCT 092-554-B (SA)   | 275               | 125               | 95                    | 950             | 950  | 2230 | 2.1             | (1x) 0.55      | (1x) 80             | (1x) 80              | (1x) 20         |
| FCT 092-754 (SA)     | 276               | 126               | 96                    | 950             | 950  | 2230 | 2.4             | (1x) 0.75      | (1x) 80             | (1x) 80              | (1x) 20         |
| FCT 092-754-B (SA)   | 276               | 126               | 96                    | 950             | 950  | 2230 | 2.4             | (1x) 0.75      | (1x) 80             | (1x) 80              | (1x) 20         |
| FCT 092-114 (SA)     | 280               | 130               | 100                   | 950             | 950  | 2230 | 2.7             | (1x) 1.1       | (1x) 80             | (1x) 80              | (1x) 20         |
| FCT 092-114-B (SA)   | 280               | 130               | 100                   | 950             | 950  | 2230 | 2.7             | (1x) 1.1       | (1x) 80             | (1x) 80              | (1x) 20         |
| FCT 092-154 (SA)     | 285               | 135               | 105                   | 950             | 950  | 2230 | 3.0             | (1x) 1.5       | (1x) 80             | (1x) 80              | (1x) 20         |
| FCT 092-154-B (SA)   | 285               | 135               | 105                   | 950             | 950  | 2230 | 3.0             | (1x) 1.5       | (1x) 80             | (1x) 80              | (1x) 20         |
| FCT 1 212-A2-F4 (SA) | 1000              | 360               | 190                   | 1562            | 1562 | 3150 | 4.79            | (1x) 1.5       | (1x) 100            | (1x) 100             | (1x) 25         |
| FCT 1 212-B2-F4 (SA) | 1000              | 360               | 190                   | 1562            | 1562 | 3150 | 4.79            | (1x) 1.5       | (1x) 100            | (1x) 100             | (1x) 25         |
| FCT 1 212-A2-G4 (SA) | 1010              | 370               | 190                   | 1562            | 1562 | 3150 | 5.56            | (1x) 2.2       | (1x) 100            | (1x) 100             | (1x) 25         |
| FCT 1 212-B2-G4 (SA) | 1010              | 370               | 190                   | 1562            | 1562 | 3150 | 5.56            | (1x) 2.2       | (1x) 100            | (1x) 100             | (1x) 25         |
| FCT 1 212-A3-G4 (SA) | 1025              | 380               | 210                   | 1562            | 1562 | 3450 | 5.23            | (1x) 2.2       | (1x) 100            | (1x) 100             | (1x) 25         |
| FCT 1 212-B3-G4 (SA) | 1025              | 380               | 210                   | 1562            | 1562 | 3450 | 5.23            | (1x) 2.2       | (1x) 100            | (1x) 100             | (1x) 25         |
| FCT 1 212-A3-I4 (SA) | 1030              | 385               | 210                   | 1562            | 1562 | 3450 | 5.67            | (1x) 3.0       | (1x) 100            | (1x) 100             | (1x) 25         |
| FCT 1 212-B3-I4 (SA) | 1030              | 385               | 210                   | 1562            | 1562 | 3450 | 5.67            | (1x) 3.0       | (1x) 100            | (1x) 100             | (1x) 25         |
| FCT 1                | 1520              | 460               | 240                   | 2172            | 1562 | 3150 | 6.85            | (1x)           | (1x)                | (1x)                 | (1x) 25         |



|                                |      |      |     |      |      |      |       |             |             |             |         |
|--------------------------------|------|------|-----|------|------|------|-------|-------------|-------------|-------------|---------|
| 218-A2<br>-G4<br>(SA)          |      |      |     |      |      |      |       | 2.2         | 100         | 100         |         |
| FCT 1<br>218-B2<br>-G4<br>(SA) | 1520 | 460  | 240 | 2172 | 1562 | 3150 | 6.85  | (1x)<br>2.2 | (1x)<br>100 | (1x)<br>100 | (1x) 25 |
| FCT 1<br>218-A3<br>-I6 (SA)    | 1575 | 495  | 270 | 2172 | 1562 | 3450 | 7.05  | (1x)<br>3.0 | (1x)<br>100 | (1x)<br>100 | (1x) 25 |
| FCT 1<br>218-B3<br>-I6 (SA)    | 1575 | 495  | 270 | 2172 | 1562 | 3450 | 7.05  | (1x)<br>3.0 | (1x)<br>100 | (1x)<br>100 | (1x) 25 |
| FCT 1<br>218-A4<br>-H6<br>(SA) | 1630 | 530  | 300 | 2172 | 1562 | 3750 | 7.55  | (1x)<br>4.0 | (1x)<br>100 | (1x)<br>100 | (1x) 25 |
| FCT 1<br>218-B4<br>-H6<br>(SA) | 1630 | 530  | 300 | 2172 | 1562 | 3750 | 7.55  | (1x)<br>4.0 | (1x)<br>100 | (1x)<br>100 | (1x) 25 |
| FCT 1<br>818-A2<br>-I6 (SA)    | 2330 | 770  | 430 | 2172 | 2172 | 3235 | 10.03 | (1x)<br>3.0 | (1x)<br>150 | (1x)<br>150 | (1x) 25 |
| FCT 1<br>818-B2<br>-I6 (SA)    | 2330 | 770  | 430 | 2172 | 2172 | 3235 | 10.03 | (1x)<br>3.0 | (1x)<br>150 | (1x)<br>150 | (1x) 25 |
| FCT 1<br>818-A2<br>-H6<br>(SA) | 2340 | 780  | 430 | 2172 | 2172 | 3235 | 11.31 | (1x)<br>4.0 | (1x)<br>150 | (1x)<br>150 | (1x) 25 |
| FCT 1<br>818-B2<br>-H6<br>(SA) | 2340 | 780  | 430 | 2172 | 2172 | 3235 | 11.31 | (1x)<br>4.0 | (1x)<br>150 | (1x)<br>150 | (1x) 25 |
| FCT 1<br>818-A2<br>-J6<br>(SA) | 2350 | 790  | 430 | 2172 | 2172 | 3235 | 12.49 | (1x)<br>5.5 | (1x)<br>150 | (1x)<br>150 | (1x) 25 |
| FCT 1<br>818-B2<br>-J6<br>(SA) | 2350 | 790  | 430 | 2172 | 2172 | 3235 | 12.49 | (1x)<br>5.5 | (1x)<br>150 | (1x)<br>150 | (1x) 25 |
| FCT 1<br>818-A3<br>-J6<br>(SA) | 2355 | 790  | 440 | 2172 | 2172 | 3540 | 11.83 | (1x)<br>5.5 | (1x)<br>150 | (1x)<br>150 | (1x) 25 |
| FCT 1<br>818-B3<br>-J6<br>(SA) | 2355 | 790  | 440 | 2172 | 2172 | 3540 | 11.83 | (1x)<br>5.5 | (1x)<br>150 | (1x)<br>150 | (1x) 25 |
| FCT 1<br>818-A3<br>-K6<br>(SA) | 2365 | 800  | 440 | 2172 | 2172 | 3540 | 12.9  | (1x)<br>7.5 | (1x)<br>150 | (1x)<br>150 | (1x) 25 |
| FCT 1<br>818-B3<br>-K6<br>(SA) | 2365 | 800  | 440 | 2172 | 2172 | 3540 | 12.9  | (1x)<br>7.5 | (1x)<br>150 | (1x)<br>150 | (1x) 25 |
| FCT 1<br>827-A2                | 3650 | 2140 | 695 | 3015 | 2172 | 3460 | 18.37 | (1x)<br>7.5 | (1x)<br>150 | (1x)<br>150 | (1x) 25 |



|                                |      |      |     |      |      |      |       |              |             |             |         |
|--------------------------------|------|------|-----|------|------|------|-------|--------------|-------------|-------------|---------|
| -KV<br>(SA)                    |      |      |     |      |      |      |       |              |             |             |         |
| FCT 1<br>827-B2<br>-KV<br>(SA) | 3650 | 2140 | 695 | 3015 | 2172 | 3460 | 18.37 | (1x)<br>7.5  | (1x)<br>150 | (1x)<br>150 | (1x) 25 |
| FCT 1<br>827-A3<br>-KV<br>(SA) | 3870 | 1330 | 695 | 3015 | 2172 | 4070 | 17.54 | (1x)<br>7.5  | (1x)<br>150 | (1x)<br>150 | (1x) 25 |
| FCT 1<br>827-B3<br>-KV<br>(SA) | 3870 | 1330 | 695 | 3015 | 2172 | 4070 | 17.54 | (1x)<br>7.5  | (1x)<br>150 | (1x)<br>150 | (1x) 25 |
| FCT 1<br>827-A3<br>-LV<br>(SA) | 3880 | 1340 | 705 | 3015 | 2172 | 4070 | 19.52 | (1x)<br>11.0 | (1x)<br>150 | (1x)<br>150 | (1x) 25 |
| FCT 1<br>827-B3<br>-LV<br>(SA) | 3880 | 1340 | 705 | 3015 | 2172 | 4070 | 19.52 | (1x)<br>11.0 | (1x)<br>150 | (1x)<br>150 | (1x) 25 |
| FCT 1<br>827-A4<br>-LV<br>(SA) | 3900 | 1360 | 705 | 3015 | 2172 | 4070 | 18.4  | (1x)<br>11.0 | (1x)<br>150 | (1x)<br>150 | (1x) 25 |
| FCT 1<br>827-B4<br>-LV<br>(SA) | 3900 | 1360 | 705 | 3015 | 2172 | 4070 | 18.4  | (1x)<br>11.0 | (1x)<br>150 | (1x)<br>150 | (1x) 25 |
| FCT 2<br>424-A2<br>-JV<br>(SA) | 4881 | 1350 | 718 | 2680 | 2680 | 3820 | 19.06 | (1x)<br>5.5  | (1x)<br>200 | (1x)<br>200 | (1x) 50 |
| FCT 2<br>424-B2<br>-JV<br>(SA) | 4881 | 1350 | 718 | 2680 | 2680 | 3820 | 19.06 | (1x)<br>5.5  | (1x)<br>200 | (1x)<br>200 | (1x) 50 |
| FCT 2<br>424-A3<br>-LV<br>(SA) | 5152 | 1515 | 841 | 2680 | 2680 | 4125 | 22.05 | (1x)<br>11.0 | (1x)<br>200 | (1x)<br>200 | (1x) 50 |
| FCT 2<br>424-B3<br>-LV<br>(SA) | 5152 | 1515 | 841 | 2680 | 2680 | 4125 | 22.05 | (1x)<br>11.0 | (1x)<br>200 | (1x)<br>200 | (1x) 50 |
| FCT 2<br>424-A3<br>-MV<br>(SA) | 5163 | 1525 | 841 | 2680 | 2680 | 4125 | 23.26 | (1x)<br>15.0 | (1x)<br>200 | (1x)<br>200 | (1x) 50 |
| FCT 2<br>424-B3<br>-MV<br>(SA) | 5163 | 1525 | 841 | 2680 | 2680 | 4125 | 23.26 | (1x)<br>15.0 | (1x)<br>200 | (1x)<br>200 | (1x) 50 |
| FCT 2<br>430-A2<br>-LV<br>(SA) | 6000 | 1600 | 832 | 3290 | 2680 | 3820 | 27.66 | (1x)<br>11.0 | (1x)<br>200 | (1x)<br>200 | (1x) 50 |
| FCT 2<br>430-B2<br>-LV         | 6000 | 1600 | 832 | 3290 | 2680 | 3820 | 27.66 | (1x)<br>11.0 | (1x)<br>200 | (1x)<br>200 | (1x) 50 |



|                                |      |      |      |      |      |      |       |              |             |             |         |
|--------------------------------|------|------|------|------|------|------|-------|--------------|-------------|-------------|---------|
| (SA)                           |      |      |      |      |      |      |       |              |             |             |         |
| FCT 2<br>430-A3<br>-LV<br>(SA) | 6293 | 1765 | 981  | 3290 | 2680 | 4125 | 25.98 | (1x)<br>11.0 | (1x)<br>200 | (1x)<br>200 | (1x) 50 |
| FCT 2<br>430-B3<br>-LV<br>(SA) | 6293 | 1765 | 981  | 3290 | 2680 | 4125 | 25.98 | (1x)<br>11.0 | (1x)<br>200 | (1x)<br>200 | (1x) 50 |
| FCT 2<br>430-A3<br>-MV<br>(SA) | 6304 | 1775 | 981  | 3290 | 2680 | 4125 | 27.98 | (1x)<br>15.0 | (1x)<br>200 | (1x)<br>200 | (1x) 50 |
| FCT 2<br>430-B3<br>-MV<br>(SA) | 6304 | 1775 | 981  | 3290 | 2680 | 4125 | 27.98 | (1x)<br>15.0 | (1x)<br>200 | (1x)<br>200 | (1x) 50 |
| FCT 2<br>430-A3<br>-NV<br>(SA) | 6348 | 1820 | 981  | 3290 | 2680 | 4125 | 29.2  | (1x)<br>18.5 | (1x)<br>200 | (1x)<br>200 | (1x) 50 |
| FCT 2<br>430-B3<br>-NV<br>(SA) | 6348 | 1820 | 981  | 3290 | 2680 | 4125 | 29.2  | (1x)<br>18.5 | (1x)<br>200 | (1x)<br>200 | (1x) 50 |
| FCT 2<br>436-A2<br>-KV<br>(SA) | 7040 | 1775 | 945  | 3900 | 2680 | 3820 | 26.97 | (1x)<br>7.5  | (1x)<br>200 | (1x)<br>200 | (1x) 50 |
| FCT 2<br>436-B2<br>-KV<br>(SA) | 7040 | 1775 | 945  | 3900 | 2680 | 3820 | 26.97 | (1x)<br>7.5  | (1x)<br>200 | (1x)<br>200 | (1x) 50 |
| FCT 2<br>436-A2<br>-LV<br>(SA) | 7090 | 1825 | 945  | 3900 | 2680 | 3820 | 30.77 | (1x)<br>11.0 | (1x)<br>200 | (1x)<br>200 | (1x) 50 |
| FCT 2<br>436-B2<br>-LV<br>(SA) | 7090 | 1825 | 945  | 3900 | 2680 | 3820 | 30.77 | (1x)<br>11.0 | (1x)<br>200 | (1x)<br>200 | (1x) 50 |
| FCT 2<br>436-A3<br>-LV<br>(SA) | 7403 | 1990 | 1120 | 3900 | 2680 | 4125 | 29.19 | (1x)<br>11.0 | (1x)<br>200 | (1x)<br>200 | (1x) 50 |
| FCT 2<br>436-B3<br>-LV<br>(SA) | 7403 | 1990 | 1120 | 3900 | 2680 | 4125 | 29.19 | (1x)<br>11.0 | (1x)<br>200 | (1x)<br>200 | (1x) 50 |
| FCT 2<br>436-A3<br>-MV<br>(SA) | 7414 | 2000 | 1120 | 3900 | 2680 | 4125 | 31.58 | (1x)<br>15.0 | (1x)<br>200 | (1x)<br>200 | (1x) 50 |
| FCT 2<br>436-B3<br>-MV<br>(SA) | 7414 | 2000 | 1120 | 3900 | 2680 | 4125 | 31.58 | (1x)<br>15.0 | (1x)<br>200 | (1x)<br>200 | (1x) 50 |
| FCT 2<br>436-A3<br>-NV<br>(SA) | 7458 | 2050 | 1120 | 3900 | 2680 | 4125 | 33.58 | (1x)<br>18.5 | (1x)<br>200 | (1x)<br>200 | (1x) 50 |



|                                |      |      |      |      |      |      |       |              |             |             |         |
|--------------------------------|------|------|------|------|------|------|-------|--------------|-------------|-------------|---------|
| FCT 2<br>436-B3<br>-NV<br>(SA) | 7458 | 2050 | 1120 | 3900 | 2680 | 4125 | 33.58 | (1x)<br>18.5 | (1x)<br>200 | (1x)<br>200 | (1x) 50 |
| FCT 2<br>436-A4<br>-KV<br>(SA) | 7690 | 2125 | 1295 | 3900 | 2680 | 4430 | 24.72 | (1x)<br>7.5  | (1x)<br>200 | (1x)<br>200 | (1x) 50 |
| FCT 2<br>436-B4<br>-KV<br>(SA) | 7690 | 2125 | 1295 | 3900 | 2680 | 4430 | 24.72 | (1x)<br>7.5  | (1x)<br>200 | (1x)<br>200 | (1x) 50 |
| FCT 2<br>436-A4<br>-LV<br>(SA) | 7730 | 2165 | 1295 | 3900 | 2680 | 4430 | 27.88 | (1x)<br>11.0 | (1x)<br>200 | (1x)<br>200 | (1x) 50 |
| FCT 2<br>436-B4<br>-LV<br>(SA) | 7730 | 2165 | 1295 | 3900 | 2680 | 4430 | 27.88 | (1x)<br>11.0 | (1x)<br>200 | (1x)<br>200 | (1x) 50 |
| FCT 2<br>436-A4<br>-MV<br>(SA) | 7740 | 2175 | 1295 | 3900 | 2680 | 4430 | 30.06 | (1x)<br>15.0 | (1x)<br>200 | (1x)<br>200 | (1x) 50 |
| FCT 2<br>436-B4<br>-MV<br>(SA) | 7740 | 2175 | 1295 | 3900 | 2680 | 4430 | 30.06 | (1x)<br>15.0 | (1x)<br>200 | (1x)<br>200 | (1x) 50 |
| FCT 2<br>436-A4<br>-NV<br>(SA) | 7785 | 2220 | 1295 | 3900 | 2680 | 4430 | 31.7  | (1x)<br>18.5 | (1x)<br>200 | (1x)<br>200 | (1x) 50 |
| FCT 2<br>436-B4<br>-NV<br>(SA) | 7785 | 2220 | 1295 | 3900 | 2680 | 4430 | 31.7  | (1x)<br>18.5 | (1x)<br>200 | (1x)<br>200 | (1x) 50 |
| FCT 3<br>030-A2<br>-LV<br>(SA) | 5710 | 1375 | 700  | 3200 | 3200 | 4200 | 30.85 | (1x)<br>11.0 | (1x)<br>250 | (1x)<br>250 | (1x) 50 |
| FCT 3<br>030-B2<br>-LV<br>(SA) | 5710 | 1375 | 700  | 3200 | 3200 | 4200 | 30.85 | (1x)<br>11.0 | (1x)<br>250 | (1x)<br>250 | (1x) 50 |
| FCT 3<br>030-A2<br>-NV<br>(SA) | 5795 | 1455 | 735  | 3200 | 3200 | 4200 | 35.31 | (1x)<br>18.5 | (1x)<br>250 | (1x)<br>250 | (1x) 50 |
| FCT 3<br>030-B2<br>-NV<br>(SA) | 5795 | 1455 | 735  | 3200 | 3200 | 4200 | 35.31 | (1x)<br>18.5 | (1x)<br>250 | (1x)<br>250 | (1x) 50 |
| FCT 3<br>030-A3<br>-MV<br>(SA) | 6060 | 1555 | 860  | 3200 | 3200 | 4505 | 31.09 | (1x)<br>15.0 | (1x)<br>250 | (1x)<br>250 | (1x) 50 |
| FCT 3<br>030-B3<br>-MV<br>(SA) | 6060 | 1555 | 860  | 3200 | 3200 | 4505 | 31.09 | (1x)<br>15.0 | (1x)<br>250 | (1x)<br>250 | (1x) 50 |
| FCT 3                          | 6130 | 1625 | 860  | 3200 | 3200 | 4505 | 32.89 | (1x)         | (1x)        | (1x)        | (1x) 50 |



|                                |      |      |      |      |      |      |       |              |             |             |         |
|--------------------------------|------|------|------|------|------|------|-------|--------------|-------------|-------------|---------|
| 030-A3<br>-NV<br>(SA)          |      |      |      |      |      |      |       | 18.5         | 250         | 250         |         |
| FCT 3<br>030-A3<br>-OV<br>(SA) | 6130 | 1625 | 860  | 3200 | 3200 | 4505 | 35.29 | (1x)<br>22.0 | (1x)<br>250 | (1x)<br>250 | (1x) 50 |
| FCT 3<br>030-B3<br>-NV<br>(SA) | 6130 | 1625 | 860  | 3200 | 3200 | 4505 | 32.89 | (1x)<br>18.5 | (1x)<br>250 | (1x)<br>250 | (1x) 50 |
| FCT 3<br>030-B3<br>-OV<br>(SA) | 6130 | 1625 | 860  | 3200 | 3200 | 4505 | 35.29 | (1x)<br>22.0 | (1x)<br>250 | (1x)<br>250 | (1x) 50 |
| FCT 3<br>036-A2<br>-MV<br>(SA) | 6930 | 1590 | 805  | 3810 | 3200 | 4200 | 37.18 | (1x)<br>15.0 | (1x)<br>250 | (1x)<br>250 | (1x) 50 |
| FCT 3<br>036-B2<br>-MV<br>(SA) | 6930 | 1590 | 805  | 3810 | 3200 | 4200 | 37.18 | (1x)<br>15.0 | (1x)<br>250 | (1x)<br>250 | (1x) 50 |
| FCT 3<br>036-A2<br>-NV<br>(SA) | 6995 | 1665 | 830  | 3810 | 3200 | 4200 | 40.0  | (1x)<br>18.5 | (1x)<br>250 | (1x)<br>250 | (1x) 50 |
| FCT 3<br>036-B2<br>-NV<br>(SA) | 6995 | 1665 | 830  | 3810 | 3200 | 4200 | 40.0  | (1x)<br>18.5 | (1x)<br>250 | (1x)<br>250 | (1x) 50 |
| FCT 3<br>036-A2<br>-OV<br>(SA) | 7030 | 1695 | 860  | 3810 | 3200 | 4200 | 42.93 | (1x)<br>22.0 | (1x)<br>250 | (1x)<br>250 | (1x) 50 |
| FCT 3<br>036-B2<br>-OV<br>(SA) | 7030 | 1695 | 860  | 3810 | 3200 | 4200 | 42.93 | (1x)<br>22.0 | (1x)<br>250 | (1x)<br>250 | (1x) 50 |
| FCT 3<br>036-A3<br>-MV<br>(SA) | 7325 | 1790 | 1000 | 3810 | 3200 | 4505 | 35.2  | (1x)<br>15.0 | (1x)<br>250 | (1x)<br>250 | (1x) 50 |
| FCT 3<br>036-A3<br>-NV<br>(SA) | 7325 | 1790 | 1000 | 3810 | 3200 | 4505 | 37.64 | (1x)<br>18.5 | (1x)<br>250 | (1x)<br>250 | (1x) 50 |
| FCT 3<br>036-B3<br>-MV<br>(SA) | 7325 | 1790 | 1000 | 3810 | 3200 | 4505 | 35.2  | (1x)<br>15.0 | (1x)<br>250 | (1x)<br>250 | (1x) 50 |
| FCT 3<br>036-B3<br>-NV<br>(SA) | 7325 | 1790 | 1000 | 3810 | 3200 | 4505 | 37.64 | (1x)<br>18.5 | (1x)<br>250 | (1x)<br>250 | (1x) 50 |
| FCT 3<br>036-A3<br>-OV<br>(SA) | 7425 | 1895 | 1000 | 3810 | 3200 | 4505 | 40.36 | (1x)<br>22.0 | (1x)<br>250 | (1x)<br>250 | (1x) 50 |
| FCT 3<br>036-B3                | 7425 | 1895 | 1000 | 3810 | 3200 | 4505 | 40.36 | (1x)<br>22.0 | (1x)<br>250 | (1x)<br>250 | (1x) 50 |





|                                |      |      |      |      |      |      |       |              |             |             |         |  |
|--------------------------------|------|------|------|------|------|------|-------|--------------|-------------|-------------|---------|--|
| -OV<br>(SA)                    |      |      |      |      |      |      |       |              |             |             |         |  |
| FCT 3<br>036-A3<br>-PV<br>(SA) | 7495 | 1965 | 1000 | 3810 | 3200 | 4505 | 41.91 | (1x)<br>30.0 | (1x)<br>250 | (1x)<br>250 | (1x) 50 |  |
| FCT 3<br>036-B3<br>-PV<br>(SA) | 7495 | 1965 | 1000 | 3810 | 3200 | 4505 | 41.91 | (1x)<br>30.0 | (1x)<br>250 | (1x)<br>250 | (1x) 50 |  |
| FCT 3<br>036-A4<br>-PV<br>(SA) | 7895 | 2165 | 1000 | 3810 | 3200 | 4810 | 39.4  | (1x)<br>30.0 | (1x)<br>250 | (1x)<br>250 | (1x) 50 |  |
| FCT 3<br>036-B4<br>-PV<br>(SA) | 7895 | 2165 | 1000 | 3810 | 3200 | 4810 | 39.4  | (1x)<br>30.0 | (1x)<br>250 | (1x)<br>250 | (1x) 50 |  |
| FCT 3<br>042-A2<br>-MV<br>(SA) | 7965 | 1780 | 915  | 4440 | 3200 | 4200 | 42.61 | (1x)<br>15.0 | (1x)<br>250 | (1x)<br>250 | (1x) 50 |  |
| FCT 3<br>042-B2<br>-MV<br>(SA) | 7965 | 1780 | 915  | 4440 | 3200 | 4200 | 42.61 | (1x)<br>15.0 | (1x)<br>250 | (1x)<br>250 | (1x) 50 |  |
| FCT 3<br>042-A2<br>-NV<br>(SA) | 8040 | 1855 | 915  | 4440 | 3200 | 4200 | 47.63 | (1x)<br>18.5 | (1x)<br>250 | (1x)<br>250 | (1x) 50 |  |
| FCT 3<br>042-B2<br>-NV<br>(SA) | 8040 | 1855 | 915  | 4440 | 3200 | 4200 | 47.63 | (1x)<br>18.5 | (1x)<br>250 | (1x)<br>250 | (1x) 50 |  |
| FCT 3<br>042-A2<br>-OV<br>(SA) | 8070 | 1880 | 930  | 4440 | 3200 | 4200 | 49.5  | (1x)<br>22.0 | (1x)<br>250 | (1x)<br>250 | (1x) 50 |  |
| FCT 3<br>042-B2<br>-OV<br>(SA) | 8070 | 1880 | 930  | 4440 | 3200 | 4200 | 49.5  | (1x)<br>22.0 | (1x)<br>250 | (1x)<br>250 | (1x) 50 |  |
| FCT 3<br>042-A3<br>-NV<br>(SA) | 8500 | 2085 | 1140 | 4440 | 3200 | 4505 | 45.01 | (1x)<br>18.5 | (1x)<br>250 | (1x)<br>250 | (1x) 50 |  |
| FCT 3<br>042-B3<br>-NV<br>(SA) | 8500 | 2085 | 1140 | 4440 | 3200 | 4505 | 45.01 | (1x)<br>18.5 | (1x)<br>250 | (1x)<br>250 | (1x) 50 |  |
| FCT 3<br>042-A3<br>-OV<br>(SA) | 8530 | 2115 | 1140 | 4440 | 3200 | 4505 | 46.7  | (1x)<br>22.0 | (1x)<br>250 | (1x)<br>250 | (1x) 50 |  |
| FCT 3<br>042-B3<br>-OV<br>(SA) | 8530 | 2115 | 1140 | 4440 | 3200 | 4505 | 46.7  | (1x)<br>22.0 | (1x)<br>250 | (1x)<br>250 | (1x) 50 |  |
| FCT 3<br>042-A3<br>-PV         | 8605 | 2185 | 1140 | 4440 | 3200 | 4505 | 50.12 | (1x)<br>30.0 | (1x)<br>250 | (1x)<br>250 | (1x) 50 |  |



|                                |       |      |      |      |      |      |       |              |             |             |         |
|--------------------------------|-------|------|------|------|------|------|-------|--------------|-------------|-------------|---------|
| (SA)                           |       |      |      |      |      |      |       |              |             |             |         |
| FCT 3<br>042-B3<br>-PV<br>(SA) | 8605  | 2185 | 1140 | 4440 | 3200 | 4505 | 50.12 | (1x)<br>30.0 | (1x)<br>250 | (1x)<br>250 | (1x) 50 |
| FCT 3<br>048-A2<br>-OV<br>(SA) | 9115  | 2080 | 1040 | 5070 | 3200 | 4200 | 53.41 | (1x)<br>22.0 | (1x)<br>250 | (1x)<br>250 | (1x) 50 |
| FCT 3<br>048-B2<br>-OV<br>(SA) | 9115  | 2080 | 1040 | 5070 | 3200 | 4200 | 53.41 | (1x)<br>22.0 | (1x)<br>250 | (1x)<br>250 | (1x) 50 |
| FCT 3<br>048-A3<br>-OV<br>(SA) | 9640  | 2340 | 1295 | 5070 | 3200 | 4505 | 50.71 | (1x)<br>22.0 | (1x)<br>250 | (1x)<br>250 | (1x) 50 |
| FCT 3<br>048-B3<br>-OV<br>(SA) | 9640  | 2340 | 1295 | 5070 | 3200 | 4505 | 50.71 | (1x)<br>22.0 | (1x)<br>250 | (1x)<br>250 | (1x) 50 |
| FCT 3<br>048-A3<br>-PV<br>(SA) | 9715  | 2410 | 1295 | 5070 | 3200 | 4505 | 55.36 | (1x)<br>30.0 | (1x)<br>250 | (1x)<br>250 | (1x) 50 |
| FCT 3<br>048-B3<br>-PV<br>(SA) | 9715  | 2410 | 1295 | 5070 | 3200 | 4505 | 55.36 | (1x)<br>30.0 | (1x)<br>250 | (1x)<br>250 | (1x) 50 |
| FCT 3<br>048-A4<br>-QV<br>(SA) | 10350 | 2785 | 1550 | 5070 | 3200 | 4810 | 55.12 | (1x)<br>37.0 | (1x)<br>250 | (1x)<br>250 | (1x) 50 |
| FCT 3<br>048-B4<br>-QV<br>(SA) | 10350 | 2785 | 1550 | 5070 | 3200 | 4810 | 55.12 | (1x)<br>37.0 | (1x)<br>250 | (1x)<br>250 | (1x) 50 |