

# Hydrocyclone



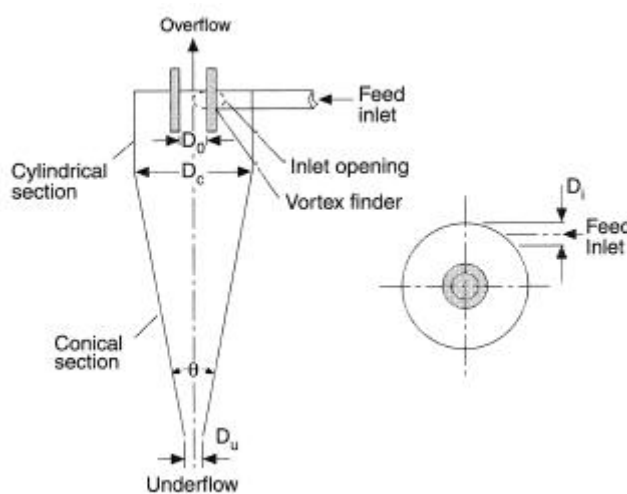
WELL-TECH EQUIPMENT  
威尔国际矿业装备

## Description:

The hydrocyclone is a simple piece of equipment that uses fluid pressure to generate centrifugal force and a flow pattern which can separate particles or droplets from a liquid medium. These particles or droplets must have a sufficiently different density relative to the medium in order to achieve separation.

Scope of Application : ore pulp classifier

Liquids and solids enter the unit and begin traveling in a circular flow. This centrifugal action forces heavier particles downward in a spiral motion to the separation chamber. The particles collect in this separation chamber and are purged from the system. The filtered water is drawn to the separator's vortex and up through the outlet.



## Technical Specification

| Model | Canister Interior Diameter (mm) | Cone Angle (°) | Overflow Pipe Dia. (mm) | Bottom Exit Dia. (mm) | Max. Permitted Feeding Granularity (mm) | Feeding Pressure (Mpa) | Processing Capacity (m³/h) | Classification Granularity (um) | Weight (Kg) |
|-------|---------------------------------|----------------|-------------------------|-----------------------|-----------------------------------------|------------------------|----------------------------|---------------------------------|-------------|
| FX660 | 660                             | 20             | 180~240                 | 80~150                | 16                                      | 0.03~0.2               | 250~350                    | 74~220                          | 995         |
| FX500 | 500                             | 20             | 130~200                 | 35~100                | 10                                      | 0.03~0.3               | 140~220                    | 74~200                          | 495         |
|       |                                 | 15             |                         |                       |                                         |                        |                            | 74~150                          | 540         |
| FX350 | 350                             | 20             | 80~120                  | 30~70                 | 6                                       | 0.04~0.3               | 60~100                     | 50~150                          | 182         |
|       |                                 | 15             |                         |                       |                                         |                        |                            | 50~120                          | 230         |
| FX300 | 300                             | 20             | 65~115                  | 20~50                 | 5                                       | 0.04~0.3               | 45~85                      | 50~150                          | 108         |
|       |                                 | 15             |                         |                       |                                         |                        |                            | 40~100                          | 169         |
| FX250 | 250                             | 20             | 60~100                  | 16~45                 | 3                                       | 0.06~0.35              | 40~60                      | 40~100                          | 72          |
|       |                                 | 15             |                         |                       |                                         |                        |                            | 40~100                          | 77          |
|       |                                 | 10             |                         |                       |                                         |                        |                            | 30~100                          | 83          |
| FX200 | 200                             | 20             | 40~65                   | 16~32                 | 2                                       | 0.06~0.35              | 25~40                      | 40~100                          | 60          |

|       |     |    |       |      |     |           |       |        |     |
|-------|-----|----|-------|------|-----|-----------|-------|--------|-----|
|       |     | 15 |       |      |     |           |       | 30~100 | 64  |
|       |     | 10 |       |      |     |           |       | 30~100 | 69  |
| FX150 | 150 | 20 | 30~45 | 8~22 | 1.5 | 0.06~0.35 | 11~20 | 30~74  | 20  |
|       |     | 15 |       |      |     |           |       | 30~74  | 22  |
|       |     | 8  |       |      |     |           |       | 30~74  | 60  |
| FX125 | 125 | 17 | 25~40 | 8~18 | 1   | 0.06~0.35 | 8~15  | 20~100 | 10  |
|       |     | 8  |       |      |     |           |       | 20~74  | 12  |
| FX100 | 100 | 20 | 20~40 | 8~18 | 1   | 0.06~0.35 | 5~12  | 20~100 | 8   |
|       |     | 15 |       |      |     |           |       | 20~100 | 13  |
|       |     | 8  |       |      |     |           |       | 20~100 | 21  |
| FX75  | 75  | 15 | 15~22 | 6~12 | 0.6 | 0.1~0.4   | 2~5   | 20~74  | 4.2 |
|       |     | 6  |       |      |     |           |       | 5~40   | 7   |
| FX50  | 50  | 15 | 11~16 | 3~8  | 0.3 | 0.1~0.4   | 1~2   | 10~74  | 2   |
|       |     | 6  |       |      |     |           |       | 5~30   | 2.5 |

Application:



Gold cyclone separator



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water cyclone separator