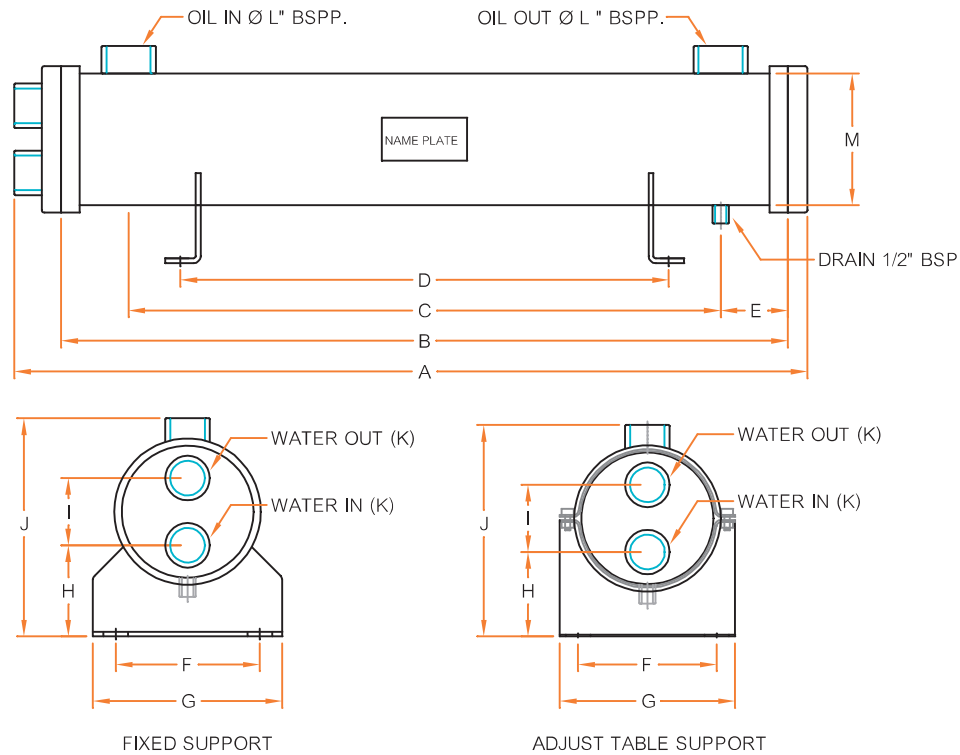


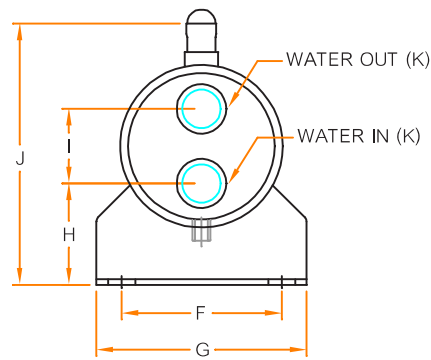
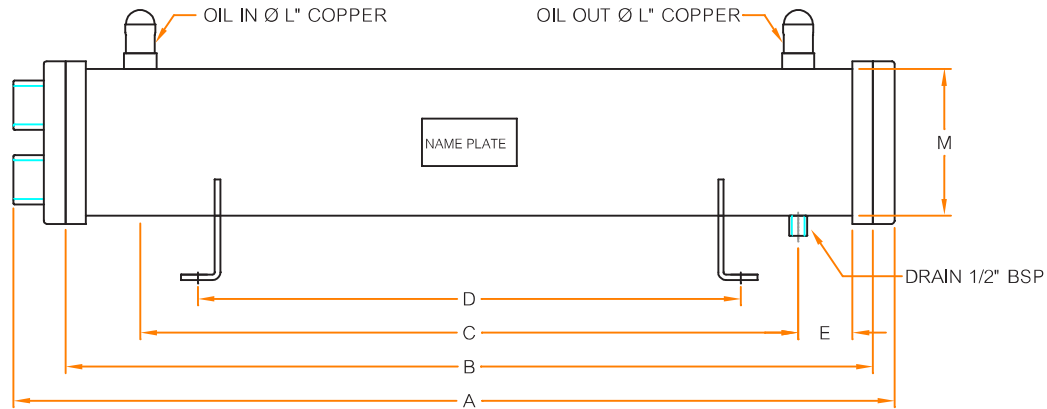
# SHELL & TUBE OIL COOLER MODEL AP



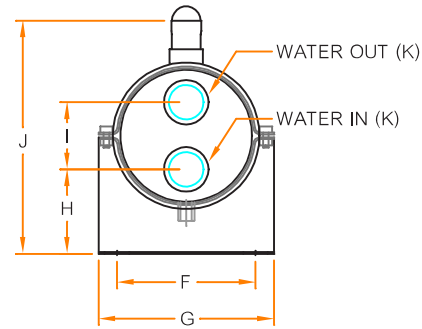
## SHELL SIZE 4" - 10"

| MODEL     | DIMENSION ( mm ) |       |       |                      |      |       |     |     |     |     | DIMENSION ( inch ) |             |                             | HEAT SURFACE (ft <sup>2</sup> ) | WEIGHT (Kg) |       |     |     |     |        |    |         |         |       |     |
|-----------|------------------|-------|-------|----------------------|------|-------|-----|-----|-----|-----|--------------------|-------------|-----------------------------|---------------------------------|-------------|-------|-----|-----|-----|--------|----|---------|---------|-------|-----|
|           | A                | B     | C     | D                    | E    | F     | G   | H   | I   | J   | K                  | L           | M                           |                                 |             |       |     |     |     |        |    |         |         |       |     |
| AP 42-04  | 515              | 420   | 280   | ADJUST TABLE SUPPORT | 40   | 122   | 182 | 85  | 76  | 215 | 1"                 | 1"          | 4 1/2"                      | 4.5                             | 53          |       |     |     |     |        |    |         |         |       |     |
| AP 49-04  | 585              | 490   | 350   |                      |      |       |     |     |     |     |                    |             |                             | 5.27                            | 55          |       |     |     |     |        |    |         |         |       |     |
| AP 54-04  | 635              | 540   | 400   |                      | 5.8  |       |     |     |     |     |                    |             |                             | 57                              |             |       |     |     |     |        |    |         |         |       |     |
| AP 74-04  | 835              | 740   | 600   |                      | 8.07 |       |     |     |     |     |                    |             |                             | 61                              |             |       |     |     |     |        |    |         |         |       |     |
| AP 99-04  | 1,085            | 990   | 840   |                      | 45   |       |     |     |     |     | FEMALE BSPP        | FEMALE BSPP | 4 1/2"                      | 10.8                            | 67          |       |     |     |     |        |    |         |         |       |     |
| AP 49-05  | 590              | 490   | 340   | ADJUST TABLE SUPPORT | 45   | 149   | 209 | 103 | 87  | 256 | 1 1/4"             | 1 1/4"      | 5 1/2"                      | 7.9                             | 68          |       |     |     |     |        |    |         |         |       |     |
| AP 59-05  | 690              | 590   | 420   |                      |      |       |     |     |     |     |                    |             |                             | 9.7                             | 71          |       |     |     |     |        |    |         |         |       |     |
| AP 74-05  | 840              | 740   | 570   |                      | 12.2 |       |     |     |     |     |                    |             |                             | 77                              |             |       |     |     |     |        |    |         |         |       |     |
| AP 99-05  | 1,090            | 990   | 820   |                      | 16.5 |       |     |     |     |     |                    |             |                             | 87                              |             |       |     |     |     |        |    |         |         |       |     |
| AP 119-05 | 1,290            | 1,190 | 1,020 |                      | 55   | 149   | 209 | 103 | 87  | 256 | FEMALE BSPP        | FEMALE BSPP | 5 1/2"                      | 20.0                            | 94          |       |     |     |     |        |    |         |         |       |     |
| AP 74-06  | 840              | 740   | 550   | 18.2                 |      |       |     |     |     |     |                    |             |                             | 105                             |             |       |     |     |     |        |    |         |         |       |     |
| AP 99-06  | 1,090            | 990   | 800   | 24.7                 |      |       |     |     |     |     |                    |             |                             | 118                             |             |       |     |     |     |        |    |         |         |       |     |
| AP 119-06 | 1,290            | 1,190 | 1,000 | 30.1                 |      |       |     |     |     |     |                    |             |                             | 128                             |             |       |     |     |     |        |    |         |         |       |     |
| AP 149-06 | 1,590            | 1,490 | 1,300 | ADJUST TABLE SUPPORT | 65   | 176   | 236 | 115 | 94  | 284 | 1 1/2"             | 2"          | 6 1/2"                      | 37.7                            | 148         |       |     |     |     |        |    |         |         |       |     |
| AP 74-08  | 849              | 740   | 520   |                      |      |       |     |     |     |     |                    |             |                             | 350                             | 80          | 236   | 310 | 150 | 110 | 358    | 2" | 2 1/2"  | 8 1/2"  | 31.7  | 161 |
| AP 99-08  | 1,099            | 990   | 770   |                      |      |       |     |     |     |     |                    |             |                             | 600                             |             |       |     |     |     |        |    |         |         | 43.1  | 182 |
| AP 119-08 | 1,299            | 1,190 | 970   |                      |      |       |     |     |     |     |                    |             |                             | 800                             |             |       |     |     |     |        |    |         |         | 52.2  | 199 |
| AP 149-08 | 1,599            | 1,490 | 1,270 | 1,000                | 65.9 | 223   |     |     |     |     |                    |             |                             |                                 |             |       |     |     |     |        |    |         |         |       |     |
| AP 199-08 | 2,099            | 1,990 | 1,770 | 1,500                |      | 80    | 286 | 360 | 156 | 150 | 465                | FEMALE BSPP | FEMALE BSPP                 | 8 1/2"                          | 88.6        | 265   |     |     |     |        |    |         |         |       |     |
| AP 74-10  | 861              | 740   | 520   | 350                  | 80   |       |     |     |     |     |                    |             |                             |                                 | 286         | 360   | 156 | 150 | 465 | 2 1/2" | 3" | 10 1/2" | 53.1    | 245   |     |
| AP 99-10  | 1,111            | 990   | 770   | 600                  |      |       |     |     |     |     |                    |             |                             |                                 |             |       |     |     |     |        |    |         | 72.5    | 277   |     |
| AP 119-10 | 1,311            | 1,190 | 970   | 800                  |      |       |     |     |     |     |                    |             |                             |                                 |             |       |     |     |     |        |    |         | 88.0    | 303   |     |
| AP 149-10 | 1,611            | 1,490 | 1,270 | 1,000                |      | 111.1 | 342 |     |     |     |                    |             |                             |                                 |             |       |     |     |     |        |    |         |         |       |     |
| AP 199-10 | 2,111            | 1,990 | 1,770 | 1,500                |      | 90    | 286 | 360 | 171 | 191 | 526                | FEMALE BSPP | FLANGE 10Kg/cm <sup>2</sup> | FLANGE 10Kg/cm <sup>2</sup>     | 12 1/2"     | 149.7 | 406 |     |     |        |    |         |         |       |     |
| AP 99-12  | 1,146            | 990   | 750   | 600                  | 90   |       |     |     |     |     |                    |             |                             |                                 |             | 286   | 360 | 171 | 191 | 526    | 3" | 4"      | 12 1/2" | 101.9 | 376 |
| AP 119-12 | 1,346            | 1,190 | 950   | 700                  |      |       |     |     |     |     |                    |             |                             |                                 |             |       |     |     |     |        |    |         |         | 123.9 | 411 |
| AP 149-12 | 1,646            | 1,490 | 1,250 | 1,000                |      |       |     |     |     |     |                    |             |                             |                                 |             |       |     |     |     |        |    |         |         | 156.9 | 465 |
| AP 199-12 | 2,143            | 1,990 | 1,750 | 1,500                |      | 214.7 | 554 |     |     |     |                    |             |                             |                                 |             |       |     |     |     |        |    |         |         |       |     |

# SHELL & TUBE OIL COOLER MODEL RP



FIXED SUPPORT



ADJUST TABLE SUPPORT

## SHELL SIZE 4" - 10"

| MODEL     | DIMENSION ( mm ) |       |       |                      |    |     |     |     |     |     | DIMENSION ( inch ) |        |         | HEAT SURFACE (ft <sup>2</sup> ) | WEIGHT (Kg) |
|-----------|------------------|-------|-------|----------------------|----|-----|-----|-----|-----|-----|--------------------|--------|---------|---------------------------------|-------------|
|           | A                | B     | C     | D                    | E  | F   | G   | H   | I   | J   | K                  | L      | M       |                                 |             |
| RP 54-04  | 635              | 540   | 400   | ADJUST TABLE SUPPORT | 40 | 122 | 182 | 85  | 76  | 237 | 1"                 | 3/4"   | 4 1/2"  | 5.8                             | 57          |
| RP 74-04  | 835              | 740   | 590   |                      | 45 |     |     |     |     |     | FEMALE BSPP        |        |         | 8.07                            | 61          |
| RP 99-04  | 1,085            | 990   | 840   |                      | 45 |     |     |     |     |     | FEMALE BSPP        |        |         | 10.8                            | 67          |
| RP 59-05  | 690              | 590   | 430   | ADJUST TABLE SUPPORT | 50 | 149 | 209 | 103 | 87  | 274 | 1 1/4"             | 7/8"   | 5 1/2"  | 9.7                             | 71          |
| RP 74-05  | 840              | 740   | 580   |                      |    |     |     |     |     |     | FEMALE BSPP        |        |         | 12.2                            | 77          |
| RP 99-05  | 1,090            | 990   | 830   |                      |    |     |     |     |     |     | FEMALE BSPP        |        |         | 16.5                            | 94          |
| RP 119-05 | 1,290            | 1,190 | 1,030 | ADJUST TABLE SUPPORT | 50 | 176 | 236 | 115 | 94  | 306 | 1 1/2"             | 1 1/8" | 6 1/2"  | 20.0                            | 87          |
| RP 74-06  | 840              | 740   | 580   |                      |    |     |     |     |     |     | FEMALE BSPP        |        |         | 18.2                            | 105         |
| RP 99-06  | 1,090            | 990   | 830   |                      |    |     |     |     |     |     | FEMALE BSPP        |        |         | 24.7                            | 118         |
| RP 119-06 | 1,990            | 1,190 | 1,030 | ADJUST TABLE SUPPORT | 50 | 176 | 236 | 115 | 94  | 306 | 1 1/2"             | 1 1/8" | 6 1/2"  | 30.1                            | 128         |
| RP 74-08  | 849              | 740   | 550   |                      | 65 | 236 | 310 | 150 | 110 | 379 | 2"                 | 1 3/8" | 8 1/2"  | 31.7                            | 161         |
| RP 99-08  | 1,095            | 990   | 800   |                      |    |     |     |     |     |     | FEMALE BSPP        | 1 5/8" |         | 43.1                            | 182         |
| RP 119-08 | 1,299            | 1,190 | 1,000 |                      |    |     |     |     |     |     | FEMALE BSPP        | 1 5/8" |         | 52.2                            | 199         |
| RP 149-08 | 1,599            | 1,490 | 1,300 | ADJUST TABLE SUPPORT | 65 | 286 | 360 | 156 | 150 | 446 | 2 1/2"             | 1 5/8" | 10 1/2" | 65.9                            | 223         |
| RP 74-10  | 861              | 740   | 550   |                      |    |     |     |     |     |     | FEMALE BSPP        | 2 1/8" |         | 53.1                            | 245         |
| RP 99-10  | 1,111            | 990   | 800   |                      |    |     |     |     |     |     | FEMALE BSPP        | 2 1/8" |         | 72.5                            | 277         |
| RP 119-10 | 1,311            | 1,190 | 1,000 | ADJUST TABLE SUPPORT | 65 | 286 | 360 | 156 | 150 | 452 | 2 1/2"             | 1 5/8" | 10 1/2" | 88.0                            | 303         |
| RP 149-10 | 1,611            | 1,490 | 1,300 |                      |    |     |     |     |     |     | FEMALE BSPP        | 2 1/8" |         | 111.1                           | 342         |