

# Chicago Pneumatic: full offer, global presence



**Original parts.  
Your quality assurance.**

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The 'original part' identification confirms that these components passed our strict test criteria. All parts are designed to match the compressor and are approved for use on the specified compressor. They have been thoroughly tested to obtain the highest level of protection, extending the compressors' lifetime and keeping the cost of ownership to an absolute minimum. No compromises are made on reliability. The use of 'original part' certified quality components helps ensure reliable operation and will not impact the validity of your warranty, unlike other parts. Look for your quality assurance.

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**Industrial Air Compressors**

**People. Passion. Performance.**



# CPA Belt driven Rotary Screw Compressors From 7,5 To 20 HP

## CPA Base

A design where everything is rational. Particular care has been taken to resolving air circulation problems inside the machine. The use of quality reliable components allows optimal performance form an excellent screw air end.



## CPA series: Floor Mounted

|             |                                                                                                |
|-------------|------------------------------------------------------------------------------------------------|
| Technology  |  Screw      |
| Use         |  Continuous |
| Air quality |  Standard   |
| Noise level |  Silent     |



## User benefits



### Low noise levels

Insulation foam, deflectors and anti-vibration pads assure low noise levels.



### Easy and fast maintenance

Enabled by good positioning of service items: belts, oil and filters.



### Advanced control and monitoring

Accurate control to work at the most optimal conditions.



### Built to last

Designed for continuous duty and very hard working conditions.



| Type       | l/m  | m³/h | cfm | HP  | kW  | bar | psi | volt                                                             | L x W x H (mm)   | Start | dB(A) | connection gas | Kg  |
|------------|------|------|-----|-----|-----|-----|-----|------------------------------------------------------------------|------------------|-------|-------|----------------|-----|
| CPA 7,5/8  | 804  | 48   | 28  | 7,5 | 5,5 | 8   | 116 | 220V/3ph/60Hz<br>380V/3ph/50Hz<br>380V/3ph/60Hz<br>400V/3ph/50Hz | 980 x 645 x 1040 | sds   | 65    | ¼              | 255 |
| CPA 7,5/10 | 629  | 38   | 22  | 7,5 | 5,5 | 10  | 145 |                                                                  | 980 x 645 x 1040 | sds   | 65    | ¼              | 255 |
| CPA 7,5/13 | 517  | 31   | 18  | 7,5 | 5,5 | 13  | 189 |                                                                  | 980 x 645 x 1040 | sds   | 65    | ¼              | 255 |
| CPA 10/8   | 1128 | 68   | 40  | 10  | 7,5 | 8   | 116 |                                                                  | 980 x 645 x 1040 | sds   | 65    | ¼              | 255 |
| CPA 10/10  | 1016 | 61   | 36  | 10  | 7,5 | 10  | 145 |                                                                  | 980 x 645 x 1040 | sds   | 65    | ¼              | 260 |
| CPA 10/13  | 785  | 47   | 28  | 10  | 7,5 | 13  | 189 |                                                                  | 980 x 645 x 1040 | sds   | 65    | ¼              | 260 |
| CPA 15/8   | 1603 | 96   | 57  | 15  | 11  | 8   | 116 |                                                                  | 980 x 645 x 1040 | sds   | 66    | ¼              | 275 |
| CPA 15/10  | 1417 | 85   | 50  | 15  | 11  | 10  | 145 |                                                                  | 980 x 645 x 1040 | sds   | 66    | ¼              | 275 |
| CPA 15/13  | 1166 | 70   | 41  | 15  | 11  | 13  | 189 |                                                                  | 980 x 645 x 1040 | sds   | 66    | ¼              | 275 |
| CPA 20/8   | 1897 | 114  | 67  | 20  | 15  | 8   | 116 |                                                                  | 980 x 645 x 1040 | sds   | 66    | ¼              | 290 |
| CPA 20/10  | 1689 | 101  | 60  | 20  | 15  | 10  | 145 |                                                                  | 980 x 645 x 1040 | sds   | 66    | ¼              | 290 |
| CPA 20/13  | 1476 | 89   | 52  | 20  | 15  | 13  | 189 |                                                                  | 980 x 645 x 1040 | sds   | 66    | ¼              | 290 |



# CPB Belt driven Rotary Screw Compressors From 20 To 40 HP

The CPB range are modern and up-to-dated rotary oil-injected screw compressors that serve a wide range of applications. Components have been widely tested and the compressors meet the highest quality standards.

Easy to use and simple maintenance together with low noise level are the stronger points of this range.

Easy maintenance: all components are easy to be reached as all panels can be removed easily. The design of all components guarantees easy access to the cabinet for any maintenance operation.



- 1 Time Proven High Performance Element
- 2 High Quality Drive Motor
- 3 Heavy Duty Inlet Air Filter
- 4 High Efficiency Air/Oil Cooler, 30% Enlarged
- 5 High Efficiency Transmission

## CPB series: Floor Mounted

|             |                                                                                                |
|-------------|------------------------------------------------------------------------------------------------|
| Technology  |  Screw      |
| Use         |  Continuous |
| Air quality |  Standard   |
| Noise level |  Silent     |

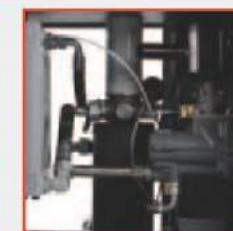


## User benefits



### Low noise levels

Insulation foam, deflectors and anti-vibration pads assure low noise levels.



### Easy and fast maintenance

Enabled by good positioning of service items: belts, oil and filters.



### Advanced control and monitoring

Accurate control to work at the most optimal conditions.



### Built to last

Designed for continuous duty and very hard working conditions.

| Type      | l/m  | m³/h | cfm | HP | kW   | bar | psi | volt                                                             | L x W x H (mm)    | Start | dB(A) | connection gas | Kg  |
|-----------|------|------|-----|----|------|-----|-----|------------------------------------------------------------------|-------------------|-------|-------|----------------|-----|
| CPB 20/8  | 2269 | 136  | 80  | 20 | 15   | 8   | 116 | 220V/3ph/60Hz<br>380V/3ph/50Hz<br>380V/3ph/60Hz<br>400V/3ph/50Hz | 1330 x 780 x 1220 | sds   | 64    | G1             | 400 |
| CPB 20/10 | 2091 | 125  | 74  | 20 | 15   | 10  | 145 |                                                                  | 1330 x 780 x 1220 | sds   | 64    | G1             | 400 |
| CPB 20/13 | 1654 | 99   | 58  | 20 | 15   | 13  | 189 |                                                                  | 1330 x 780 x 1220 | sds   | 64    | G1             | 400 |
| CPB 25/8  | 2863 | 172  | 101 | 25 | 18,5 | 8   | 116 |                                                                  | 1330 x 780 x 1220 | sds   | 68    | G1             | 430 |
| CPB 25/10 | 2688 | 161  | 95  | 25 | 18,5 | 10  | 145 |                                                                  | 1330 x 780 x 1220 | sds   | 68    | G1             | 430 |
| CPB 25/13 | 2186 | 131  | 77  | 25 | 18,5 | 13  | 189 |                                                                  | 1330 x 780 x 1220 | sds   | 68    | G1             | 430 |
| CPB 30/8  | 3404 | 204  | 120 | 30 | 22   | 8   | 116 |                                                                  | 1330 x 780 x 1220 | sds   | 68    | G1             | 450 |
| CPB 30/10 | 3011 | 181  | 106 | 30 | 22   | 10  | 145 |                                                                  | 1330 x 780 x 1220 | sds   | 68    | G1             | 450 |
| CPB 30/13 | 2633 | 158  | 93  | 30 | 22   | 13  | 189 |                                                                  | 1330 x 780 x 1220 | sds   | 68    | G1             | 450 |
| CPB 40/8  | 3995 | 240  | 141 | 40 | 30   | 8   | 116 |                                                                  | 1330 x 780 x 1220 | sds   | 69    | G1             | 500 |
| CPB 40/10 | 3558 | 213  | 126 | 40 | 30   | 10  | 145 |                                                                  | 1330 x 780 x 1220 | sds   | 69    | G1             | 500 |
| CPB 40/13 | 2953 | 177  | 104 | 40 | 30   | 13  | 189 |                                                                  | 1330 x 780 x 1220 | sds   | 69    | G1             | 500 |



# CPC/CPD/CPE Gear driven Rotary Screw Compressors From 40-125 HP

Thanks to the robust design of the gear driven range, you can rely on high quality compressed air for the most demanding applications. The maintenance-free heavy duty gear drive eliminates losses and maximizes productivity.

While components are carefully selected assuring quality and reliability, installation and maintenance is kept simple thanks to the easy accessibility. On top, cooling performance is guaranteed by the oversized cooler package and the cooling fan with sickle blade profile is designed to deliver a high cooling flow at a low noise level.



## CPC/CPD/CPE Gear Driven series: Floor Mounted

|             |                                                                                                |
|-------------|------------------------------------------------------------------------------------------------|
| Technology  |  Screw      |
| Use         |  Continuous |
| Air quality |  Standard   |
| Noise level |  Standard   |



## User benefits



**State of the art screw element**  
Unique 4/6 screw air ends for premium performance. Gear drive eliminates transmission losses and reduces running cost.



**Powerful cooling system**  
Efficient cooling fan and oversized coolers for demanding conditions.



**Extremely silent**  
The unique baffle design results in extremely low noise levels.



**Efficient air filtration**  
Protects internal components from contamination.



| Type        | l/m   | m³/h | cfm | HP  | kW   | bar | psi | volt                                            | L x W x H (mm)    | start | dB(A) | connection gas | Kg   |
|-------------|-------|------|-----|-----|------|-----|-----|-------------------------------------------------|-------------------|-------|-------|----------------|------|
| CPB15G/8    | 1833  | 110  | 65  | 15  | 11   | 8   | 116 | 380V/3ph/50Hz<br>380V/3ph/60Hz<br>400V/3ph/50Hz | 1450 X 780 X 1200 | sds   | 68    | G1 G3/4        | 445  |
| CPB15G/10   | 1550  | 93   | 55  | 15  | 11   | 10  | 145 |                                                 | 1450 X 780 X 1200 | sds   | 68    | G1 G3/4        | 445  |
| CPB 20G/8   | 2402  | 144  | 85  | 20  | 15   | 8   | 116 |                                                 | 1450 X 780 X 1200 | sds   | 68    | G1 G3/4        | 455  |
| CPB 20G/10  | 2206  | 132  | 78  | 20  | 15   | 10  | 145 |                                                 | 1450 X 780 X 1200 | sds   | 68    | G1 G3/4        | 455  |
| CPB 25G/8   | 3044  | 183  | 108 | 25  | 18.5 | 8   | 116 |                                                 | 1450 X 780 X 1200 | sds   | 69    | G1 G3/4        | 470  |
| CPB 25G/10  | 2614  | 157  | 92  | 25  | 18.5 | 10  | 145 |                                                 | 1450 X 780 X 1200 | sds   | 69    | G1 G3/4        | 470  |
| CPB 30G/8   | 3607  | 216  | 127 | 30  | 22   | 8   | 116 |                                                 | 1450 X 780 X 1200 | sds   | 69    | G1 G3/4        | 485  |
| CPB 30G/10  | 3160  | 190  | 112 | 30  | 22   | 10  | 145 |                                                 | 1450 X 780 X 1200 | sds   | 69    | G1 G3/4        | 485  |
| CPC 40G/8   | 5280  | 317  | 187 | 40  | 30   | 8   | 116 |                                                 | 1680x950x1500     | sds   | 65    | 1" ½           | 810  |
| CPC 40G/10  | 4762  | 286  | 168 | 40  | 30   | 10  | 145 |                                                 | 1680x950x1500     | sds   | 65    | 1" ½           | 810  |
| CPC 40G/13  | 4200  | 252  | 148 | 40  | 30   | 13  | 189 |                                                 | 1680x950x1500     | sds   | 65    | 1" ½           | 810  |
| CPC 50G/8   | 6720  | 403  | 237 | 50  | 37   | 8   | 116 |                                                 | 1680x950x1500     | sds   | 66    | 1" ½           | 835  |
| CPC 50G/10  | 6000  | 360  | 212 | 50  | 37   | 10  | 145 |                                                 | 1680x950x1500     | sds   | 66    | 1" ½           | 835  |
| CPC 50G/13  | 4920  | 295  | 174 | 50  | 37   | 13  | 189 |                                                 | 1680x950x1500     | sds   | 66    | 1" ½           | 835  |
| CPC 60G/8   | 7860  | 472  | 278 | 60  | 45   | 8   | 116 |                                                 | 1680x950x1500     | sds   | 67    | 1" ½           | 855  |
| CPC 60G/10  | 7077  | 425  | 250 | 60  | 45   | 10  | 145 |                                                 | 1680x950x1500     | sds   | 67    | 1" ½           | 855  |
| CPC 60G/13  | 6300  | 378  | 223 | 60  | 45   | 13  | 189 |                                                 | 1680x950x1500     | sds   | 67    | 1" ½           | 855  |
| CPD 75G/8   | 10140 | 608  | 358 | 75  | 55   | 8   | 116 |                                                 | 2260x1060x1595    | sds   | 71    | 2"             | 1250 |
| CPD 75G/10  | 9000  | 540  | 318 | 75  | 55   | 10  | 145 |                                                 | 2260x1060x1595    | sds   | 71    | 2"             | 1250 |
| CPD 75G/13  | 7920  | 475  | 280 | 75  | 55   | 13  | 189 |                                                 | 2260x1060x1595    | sds   | 71    | 2"             | 1250 |
| CPD 100G/8  | 12384 | 743  | 437 | 100 | 75   | 8   | 116 |                                                 | 2260x1060x1595    | sds   | 72    | 2"             | 1315 |
| CPD 100G/10 | 11400 | 684  | 403 | 100 | 75   | 10  | 145 |                                                 | 2260x1060x1595    | sds   | 72    | 2"             | 1315 |
| CPD 100G/13 | 10140 | 608  | 358 | 100 | 75   | 13  | 189 |                                                 | 2260x1060x1595    | sds   | 72    | 2"             | 1315 |
| CPE 100/8   | 14340 | 860  | 507 | 100 | 75   | 8   | 116 |                                                 | 2260x1060x1595    | sds   | 72    | 2"             | 1530 |
| CPE 100/10  | 12600 | 756  | 445 | 100 | 75   | 10  | 145 |                                                 | 2260x1060x1595    | sds   | 72    | 2"             | 1530 |
| CPE 100/13  | 10800 | 648  | 381 | 100 | 75   | 13  | 189 |                                                 | 2260x1060x1595    | sds   | 72    | 2"             | 1530 |
| CPE 120/8   | 16800 | 1008 | 593 | 125 | 90   | 8   | 116 |                                                 | 2260x1060x1595    | sds   | 73    | 2"             | 1680 |
| CPE 120/10  | 15300 | 918  | 540 | 125 | 90   | 10  | 145 |                                                 | 2260x1060x1595    | sds   | 73    | 2"             | 1680 |
| CPE 120/13  | 12600 | 756  | 445 | 125 | 90   | 13  | 189 |                                                 | 2260x1060x1595    | sds   | 73    | 2"             | 1680 |



# CPVS Gear driven Variable Speed Compressors From 40 To 125HP

The Chicago Pneumatic CPVS variable speed compressor series allows you to drastically reduce your operating costs when your compressed air system is not working at full capacity all day long. Basically the inverter reduces the motor speed to match your air consumption, and as a result, you save energy and money.

The CPVS is great as a stand-alone machine or networked to a load-unload Chicago Pneumatic compressor where it can function as a master and regulate the air delivery for the whole site.



## CPVS series: Floor Mounted

|             |                                                                                                |
|-------------|------------------------------------------------------------------------------------------------|
| Technology  |  Screw      |
| Use         |  Continuous |
| Air quality |  Standard   |
| Noise level |  Standard   |



## User benefits



**CPVS saves money**  
Our technology reduces the operating cost for your compressed air system by over 20%.



**Perfectly matched inverter**  
Leading inverter brand is perfectly matched to electric motor and air end for maximum energy savings.



**Built to last**  
Designed for continuous duty and perfectly matched to the inverter speed regulation.



**Advanced control and monitoring**  
Accurate control to work at the most optimal conditions.



**State of the art screw element**  
Unique 4/6 screw air ends for premium performance. Gear drive eliminates transmission losses and reduces running cost.

**Extraordinary efficient drive train**



| Type        | l/m   | m³/h | cfm | HP  | kW   | bar | psi | volt                                            | L x W x H (mm)   | Start | dB(A) | connection gas | Kg   |
|-------------|-------|------|-----|-----|------|-----|-----|-------------------------------------------------|------------------|-------|-------|----------------|------|
| CPVS 20/8   | 900   | 54   | 32  | 20  | 15   | 8   | 116 | 380V/3ph/50Hz<br>380V/3ph/60Hz<br>400V/3ph/50Hz | 1450 x780 x1200  | IVR   | 68    | G1             | 465  |
|             | 2280  | 137  | 81  |     |      |     |     |                                                 |                  | IVR   |       |                |      |
| CPVS 20/10  | 780   | 47   | 28  | 20  | 15   | 10  | 145 |                                                 | 1450 x780 x1200  | IVR   | 68    | G1             | 465  |
|             | 2100  | 126  | 74  |     |      |     |     |                                                 |                  | IVR   |       |                |      |
| CPVS 25/8   | 1140  | 68   | 40  | 25  | 18.5 | 8   | 116 |                                                 | 1450 x780 x1200  | IVR   | 69    | G1             | 490  |
|             | 2880  | 173  | 102 |     |      |     |     |                                                 |                  | IVR   |       |                |      |
| CPVS 25/10  | 960   | 58   | 34  | 25  | 18.5 | 10  | 145 |                                                 | 1450 x780 x1200  | IVR   | 69    | G1             | 490  |
|             | 2460  | 148  | 87  |     |      |     |     |                                                 |                  | IVR   |       |                |      |
| CPVS 30/8   | 1440  | 86   | 51  | 30  | 22   | 8   | 116 |                                                 | 1450 x780 x1200  | IVR   | 69    | G1             | 510  |
|             | 3420  | 205  | 121 |     |      |     |     |                                                 |                  | IVR   |       |                |      |
| CPVS 30/10  | 1200  | 72   | 42  | 30  | 22   | 10  | 145 |                                                 | 1450 x780 x1200  | IVR   | 69    | G1             | 510  |
|             | 3000  | 180  | 106 |     |      |     |     |                                                 |                  | IVR   |       |                |      |
| CPVS 40/8   | 1802  | 108  | 64  | 40  | 30   | 8   | 116 |                                                 | 1680 x950 x1500  | IVR   | 65    | 1" ½           | 850  |
|             | 5040  | 302  | 178 |     |      |     |     |                                                 |                  | IVR   |       |                |      |
| CPVS 40/10  | 1484  | 89   | 52  | 40  | 30   | 10  | 145 |                                                 | 1680 x950 x1500  | IVR   | 65    | 1" ½           | 850  |
|             | 4440  | 266  | 157 |     |      |     |     |                                                 |                  | IVR   |       |                |      |
| CPVS 50/8   | 2239  | 134  | 79  | 50  | 37   | 8   | 116 |                                                 | 1680 x950 x1500  | IVR   | 66    | 1" ½           | 850  |
|             | 6120  | 367  | 216 |     |      |     |     |                                                 |                  | IVR   |       |                |      |
| CPVS 50/10  | 1830  | 110  | 65  | 50  | 37   | 10  | 145 |                                                 | 1680 x950 x1500  | IVR   | 66    | 1" ½           | 850  |
|             | 5520  | 331  | 195 |     |      |     |     |                                                 |                  | IVR   |       |                |      |
| CPVS 60/8   | 2722  | 163  | 96  | 60  | 45   | 8   | 116 |                                                 | 1680 x950 x1500  | IVR   | 67    | 1" ½           | 890  |
|             | 7380  | 443  | 261 |     |      |     |     |                                                 |                  | IVR   |       |                |      |
| CPVS 60/10  | 2296  | 138  | 81  | 60  | 45   | 10  | 145 |                                                 | 1680 x950 x1500  | IVR   | 67    | 1" ½           | 890  |
|             | 6540  | 392  | 231 |     |      |     |     |                                                 |                  | IVR   |       |                |      |
| CPVS 75/8   | 3180  | 191  | 112 | 75  | 55   | 8   | 116 |                                                 | 2260 x1060 x1595 | IVR   | 72    | 2"             | 1450 |
|             | 9480  | 569  | 335 |     |      |     |     |                                                 |                  | IVR   |       |                |      |
| CPVS 75/10  | 2700  | 162  | 95  | 75  | 55   | 10  | 145 |                                                 | 2260 x1060 x1595 | IVR   | 72    | 2"             | 1450 |
|             | 8220  | 493  | 290 |     |      |     |     |                                                 |                  | IVR   |       |                |      |
| CPVS 95/8   | 4260  | 256  | 151 | 100 | 75   | 8   | 116 |                                                 | 2260 x1060 x1595 | IVR   | 72    | 2"             | 1450 |
|             | 12180 | 731  | 430 |     |      |     |     |                                                 |                  | IVR   |       |                |      |
| CPVS 95/10  | 3660  | 220  | 129 | 100 | 75   | 10  | 145 |                                                 | 2260 x1060 x1595 | IVR   | 72    | 2"             | 1515 |
|             | 10800 | 648  | 382 |     |      |     |     |                                                 |                  | IVR   |       |                |      |
| CPVS 100/8  | 4440  | 266  | 157 | 100 | 75   | 8   | 116 |                                                 | 2260 x1060 x1595 | IVR   | 72    | 2"             | 1690 |
|             | 13500 | 810  | 477 |     |      |     |     |                                                 |                  | IVR   |       |                |      |
| CPVS 100/10 | 3660  | 220  | 129 | 100 | 75   | 10  | 145 |                                                 | 2260 x1060 x1595 | IVR   | 72    | 2"             | 1690 |
|             | 11580 | 695  | 409 |     |      |     |     |                                                 |                  | IVR   |       |                |      |
| CPVS 120/8  | 5400  | 324  | 191 | 125 | 90   | 8   | 116 |                                                 | 2260 x1060 x1595 | IVR   | 73    | 2"             | 1750 |
|             | 16140 | 968  | 570 |     |      |     |     |                                                 |                  | IVR   |       |                |      |
| CPVS 120/10 | 4260  | 256  | 151 | 125 | 90   | 10  | 145 |                                                 | 2260 x1060 x1595 | IVR   | 73    | 2"             | 1750 |
|             | 13260 | 796  | 469 |     |      |     |     |                                                 |                  | IVR   |       |                |      |

# Top air quality for high end equipment and processes

- Dry quality air prolongs the life of process equipment and provide superior production quality.
- Preventing equipments from corrosion by removing water vapour during compression process.
- Compact, high efficient device to meet continuous air demand.
- Ease of installation with small footprint.



- 1 Refrigerant compressor
- 2 Condenser
- 3 Heat exchanger with high thermal exchange and low pressure drop
- 4 Automatic condensate discharge
- 5 Dewpoint indicator

## CPX series: Refrigerant Dryers

|             |                                                                                                       |
|-------------|-------------------------------------------------------------------------------------------------------|
| Technology  |  Refrigerant dryer |
| Air quality |  Dry               |



Easy dew point indicator



Intelligent comfort drain



| Type     | m³/h | cfm  | kW    | Max. bar | volt/Hz       | L x W x H (mm)     | Refrig. gas | connection gas | Kg  |
|----------|------|------|-------|----------|---------------|--------------------|-------------|----------------|-----|
| CPX 10   | 25   | 15   | 0,18  | 16       | 230V/1ph/50Hz | 550 x 350 x 484    | R134a       | R ¾            | 19  |
| CPX 20   | 47   | 28   | 0,20  | 16       | 230V/1ph/50Hz | 550 x 350 x 484    | R134a       | R ¾            | 19  |
| CPX 30   | 58   | 34   | 0,22  | 16       | 230V/1ph/50Hz | 550 x 350 x 484    | R134a       | R ¾            | 20  |
| CPX 40   | 83   | 49   | 0,25  | 16       | 230V/1ph/50Hz | 550 x 350 x 484    | R134a       | R ¾            | 25  |
| CPX 60   | 108  | 64   | 0,30  | 16       | 230V/1ph/50Hz | 550 x 350 x 484    | R134a       | R ¾            | 27  |
| CPX 80   | 169  | 100  | 0,50  | 13       | 230V/1ph/50Hz | 500 x 370 x 804    | R410A       | G 1            | 44  |
| CPX 100  | 216  | 127  | 0,55  | 13       | 230V/1ph/50Hz | 500 x 370 x 804    | R410A       | G 1            | 44  |
| CPX 125  | 259  | 153  | 0,80  | 13       | 230V/1ph/50Hz | 560 x 460 x 829    | R410A       | G 1            | 53  |
| CPX 150  | 288  | 169  | 0,80  | 13       | 230V/1ph/50Hz | 560 x 460 x 829    | R410A       | G 1            | 60  |
| CPX 180  | 374  | 220  | 1,00  | 13       | 230V/1ph/50Hz | 560 x 460 x 829    | R410A       | G1 ½           | 65  |
| CPX 225  | 468  | 275  | 1,20  | 13       | 230V/1ph/50Hz | 560 x 580 x 939    | R410A       | G1 ½           | 80  |
| CPX 270  | 558  | 328  | 1,30  | 13       | 230V/1ph/50Hz | 560 x 580 x 939    | R410A       | G1 ½           | 80  |
| CPX 350  | 720  | 424  | 1,60  | 13       | 400V/3ph/50Hz | 978 x 735 x 1002   | R410A       | G2 ½           | 128 |
| CPX 425  | 864  | 508  | 1,90  | 13       | 400V/3ph/50Hz | 978 x 735 x 1002   | R410A       | G2 ½           | 146 |
| CPX 530  | 1026 | 604  | 2,10  | 13       | 400V/3ph/50Hz | 978 x 735 x 1002   | R410A       | G2 ½           | 158 |
| CPX 700  | 1188 | 699  | 2,40  | 13       | 400V/3ph/50Hz | 978 x 735 x 1002   | R410A       | G2 ½           | 165 |
| CPX 850  | 1440 | 848  | 3,90  | 13       | 400V/3ph/50Hz | 1082 x 1020 x 1560 | R404A       | G2 ½           | 325 |
| CPX 1000 | 1800 | 1060 | 4,46  | 13       | 400V/3ph/50Hz | 1082 x 1020 x 1560 | R404A       | G2 ½           | 335 |
| CPX 1200 | 2100 | 1236 | 5,55  | 13       | 400V/3ph/50Hz | 1082 x 1020 x 1560 | R404A       | G2 ½           | 350 |
| CPX 1700 | 3000 | 1766 | 6,80  | 13       | 400V/3ph/50Hz | 2099 x 1020 x 1560 | R404A       | DN125          | 550 |
| CPX 2500 | 4200 | 2374 | 10,20 | 13       | 400V/3ph/50Hz | 2099 x 1020 x 1560 | R404A       | DN125          | 600 |

Notes:

1 Reference conditions:

- Operating pressure: 7 bar (100 psi)
- Operating temperature: 35 °C
- Room temperature: 25 °C

Limit conditions:

- Working pressure:

- 16 bar (232 psi) CPX 10-60
- 13 bar (188 psi) CPX 80-2500
- Operating temperature: 55 °C
- Min/Max room temperature: +5 °C/+45 °C

Correction factor for conditions differing from the project K = A x B x C

|                    | °C | 25   | 30   | 35   | 40   | 45   |                       | °C   | 30   | 35   | 40   | 45   | 50   | 55   |
|--------------------|----|------|------|------|------|------|-----------------------|------|------|------|------|------|------|------|
| Room temperature   | A  | 1,00 | 0,92 | 0,84 | 0,80 | 0,74 | Operating temperature | B    | 1,24 | 1,00 | 0,82 | 0,69 | 0,58 | 0,45 |
|                    |    | 1,00 | 0,91 | 0,81 | 0,72 | 0,62 |                       |      | 1,00 | 1,00 | 0,82 | 0,69 | 0,58 | 0,49 |
|                    |    |      |      |      |      |      |                       |      |      |      |      |      |      |      |
| Operation pressure | C  | 0,90 | 0,96 | 1,00 | 1,03 | 1,06 | 1,08                  | 1,10 | 1,12 | 1,13 | 1,15 | 1,16 | 1,17 |      |
|                    |    | 0,90 | 0,97 | 1,00 | 1,03 | 1,05 | 1,07                  | 1,09 | 1,11 | 1,12 |      |      |      |      |



# High efficiency line filter

- Today, the equipment is more sophisticated which requires the compressed air to be free of any impurities.
- Atmospheric air contains in its origin many impurities which once compressed (and combined with the oil, in the case of oil-injected compressors) may generate abrasive and corrosive emulsions which can damage the distribution lines, the pneumatic devices, and the product itself.
- There are six different types of filters to purify the compressed air.
- Thanks to filters, productivity, quality and reliability are increased, the wear of the distribution network is limited and breakdowns are prevented instead of cured.



## Compressed air according to ISO 8573-1:2010

| Purity Class | Solid particles                                                                 |              |              | Water             |        | Total Oil* Concentration |
|--------------|---------------------------------------------------------------------------------|--------------|--------------|-------------------|--------|--------------------------|
|              | Number of particles per m³                                                      |              |              | Pressure dewpoint |        |                          |
|              | 0,1 - 0,5 µm                                                                    | 0,5 - 1,0 µm | 1,0 - 5,0 µm | °C                | °F     | mg/m³                    |
| 0            | As specified by the equipment user or supplier and more stringent than Class 1. |              |              |                   |        |                          |
| 1            | ≤ 20.000                                                                        | ≤ 400        | ≤ 40         | ≤ -70             | ≤ -94  | ≤ 0,01                   |
| 2            | ≤ 400.000                                                                       | ≤ 6.000      | ≤ 100        | ≤ -40             | ≤ -40  | ≤ 0,1                    |
| 3            | -                                                                               | ≤ 90.000     | ≤ 1000       | ≤ -20             | ≤ -4   | ≤ 1                      |
| 4            | -                                                                               | -            | ≤ 10.000     | ≤ 3               | ≤ 37,4 | ≤ 5                      |
| 5            | -                                                                               | -            | ≤ 100.000    | ≤ 7               | ≤ 44,6 | -                        |
| 6            | ≤ 5 µm/m³                                                                       |              |              | ≤ 10              | ≤ 50   | -                        |

\* Liquid, aerosol and vapour.

| Filter type | Nominal Capacity* |      |      | Maximum pressure | Connections/ port thread | Dimensions |      |     | Free space for cartridge replacement | Weight |
|-------------|-------------------|------|------|------------------|--------------------------|------------|------|-----|--------------------------------------|--------|
|             | l/min             | m³/h | cfm  |                  |                          | A          | B    | C   |                                      |        |
| FILTER 45   | 720               | 43   | 25   | 16               | 3/8"                     | 90         | 21   | 228 | 75                                   | 1      |
| FILTER 90   | 1500              | 90   | 53   | 16               | 1/2"                     | 90         | 21   | 228 | 75                                   | 1,1    |
| FILTER 125  | 2100              | 126  | 74   | 16               | 1/2"                     | 90         | 21   | 283 | 75                                   | 1,3    |
| FILTER 180  | 3000              | 180  | 106  | 16               | 3/4"                     | 110        | 27,5 | 303 | 75                                   | 1,9    |
| FILTER 180  | 3000              | 180  | 106  | 16               | 1"                       | 110        | 27,5 | 303 | 75                                   | 1,9    |
| FILTER 290  | 4800              | 288  | 170  | 16               | 1"                       | 110        | 27,5 | 343 | 75                                   | 2,1    |
| FILTER 505  | 8400              | 504  | 297  | 16               | 1 1/2"                   | 140        | 34   | 449 | 100                                  | 4,2    |
| FILTER 685  | 11400             | 684  | 403  | 16               | 1 1/2"                   | 140        | 34   | 532 | 100                                  | 4,5    |
| FILTER 935  | 15600             | 936  | 551  | 16               | 1 1/2"                   | 140        | 34   | 532 | 100                                  | 4,6    |
| FILTER 1295 | 21600             | 1296 | 763  | 16               | 2"                       | 179        | 50   | 618 | 150                                  | 6,9    |
| FILTER 1295 | 21600             | 1296 | 763  | 16               | 2 1/2"                   | 179        | 50   | 618 | 150                                  | 6,9    |
| FILTER 1890 | 31500             | 1890 | 1112 | 16               | 3"                       | 210        | 57   | 720 | 200                                  | 11,0   |
| FILTER 2430 | 40500             | 2430 | 1430 | 16               | 3"                       | 210        | 57   | 890 | 200                                  | 12,6   |

\* Reference condition: pressure 7 bar (102 psi). Maximum operating temperature of 66°C, and 35°C, only for V series. Minimum operating temperature of 1°C.

For other compressed air inlet pressures, multiply the filter capacity by the following correction factors:

| Inlet pressure (bar)  | 1    | 2    | 3    | 4    | 5    | 6    | 7   | 8    | 10  | 12   | 14   | 16  |
|-----------------------|------|------|------|------|------|------|-----|------|-----|------|------|-----|
| Inlet pressure (psig) | 15   | 29   | 44   | 58   | 72,5 | 87   | 102 | 116  | 145 | 174  | 203  | 232 |
| Correction factor     | 0,38 | 0,53 | 0,65 | 0,75 | 0,83 | 0,92 | 1   | 1,06 | 1,2 | 1,31 | 1,41 | 1,5 |



## Innovative design concept

- 1 Enjoy a reduced pressure drop and increased savings thanks to the unique head design.
- 2 A venting hole will give an audible alarm if the filter is dismantled under pressure.
- 3 Removing the filter bowl is an easy job as the external ribs allow for a firm grip on the filter.
- 4 No need to worry about corrosion. The die cast aluminum housing with special anodized treatment protects our filters both on the inside and the outside
- 5 Easy monitoring via sight glass.
- 6 Smooth draining of the filter ensures a reliable performance. This is guaranteed by our high performance automatic drain (G - C - P) and manual drain (V -S - D).



- Pressure gauge
- Voltage free contact mounted on the differential pressure gauge to give remote indication of the cartridge replacement



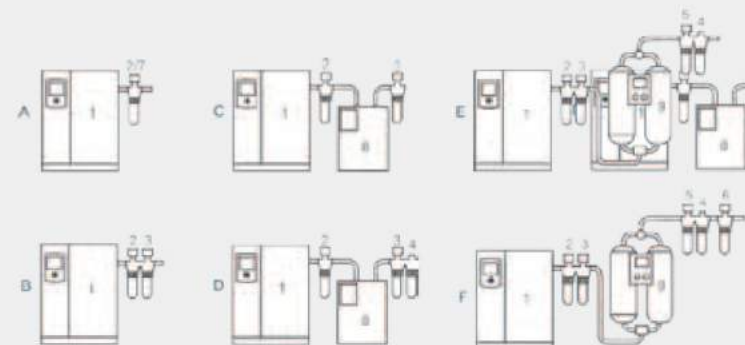
- Pressure indicator
- Serial Connection Kit allows easy mounting on filters in series
- Wall mounting kit to simplify the installation



- Quick coupling for easy connection to fix an intelligent drain with no loss of compressed air

## Typical installations:

1. Compressor with after-cooler
2. G filter
3. C filter
4. V filter
5. S filter
6. D filter
7. P Filter
8. Refrigerant dryer
9. Adsorption dryer



### A. General purpose protection

(air purity to ISO 8573-1: G filter class 2-3 & P filter class 4-5)

### B. General purpose protection and reduced oil concentration

(air purity to ISO 8573-1: class 1-2)

### C. High quality air with reduced dew point

(air purity to ISO 8573-1: class 1:4:2)

### D. High quality air with reduced dew point and oil concentration

(air purity to ISO 8573-1: class 1:4:1)

### E. High quality air with extremely low dew point

(air purity to ISO 8573-1: class 2:2:1)

### F. High quality air with extremely low dew point

(air purity to ISO 8573-1: class 1:2:1)

Note: A vertical receiver is always suggested.

The quality of air required throughout a typical compressed air system varies. Offering an extensive filter range, Chicago Pneumatic can always match your precise requirements, ensuring that all types of contamination are avoided and costs are reduced to an absolute minimum.

|                                                              | S                                                                 | D                                                                 | G                                     | C                                     | P                                        | V                                               |
|--------------------------------------------------------------|-------------------------------------------------------------------|-------------------------------------------------------------------|---------------------------------------|---------------------------------------|------------------------------------------|-------------------------------------------------|
| Filter type                                                  | Solid particles                                                   | Solid particles                                                   | Oil aerosol & solid particles         | Oil aerosol & solid particles         | Oil aerosol & solid particles            | Oil vapor                                       |
| Test method                                                  | ISO 12500-3                                                       | ISO 12500-3                                                       | ISO 12500-1<br>ISO 8573-2             | ISO 12500-1<br>ISO 8573-2             | ISO 12500-1<br>ISO 12500-3<br>ISO 8573-2 | ISO 8573-5                                      |
| Inlet Oil Concentration (mg/m³)                              | NA                                                                | NA                                                                | 10                                    | 10                                    | 10                                       | 0,01                                            |
| Count efficiency (% at MPPS)*                                | (MPPS=0,1 µm)<br>99,81                                            | (MPPS=0,06 µm)<br>99,97                                           | NA                                    | NA                                    | (MPPS=0,1 µm)<br>89,45                   | NA                                              |
| Count efficiency (% at 1 µm)                                 | 99,97                                                             | 99,999                                                            | NA                                    | NA                                    | 94,19                                    | NA                                              |
| Count efficiency (% at 0,01 µm)                              | 99,87                                                             | 99,992                                                            | NA                                    | NA                                    | 93,63                                    | NA                                              |
| Max oil carry-over (mg/m³)                                   | NA                                                                | NA                                                                | 0,1                                   | 0,01                                  | 1                                        | 0,003                                           |
| Dry pressure drop (mbar)                                     | 120                                                               | 140                                                               | NA                                    | NA                                    | 85                                       | 160                                             |
| Wet pressure drop (mbar)**                                   | NA                                                                | NA                                                                | 205                                   | 240                                   | 115                                      | NA                                              |
| Wet pressure drop (mbar), in typical compressor installation | NA                                                                | NA                                                                | 185                                   | 200                                   | NA                                       | NA                                              |
| Element service                                              | After 4.000 operating hours or 1 year or pressure drop > 350 mbar | After 4.000 operating hours or 1 year or pressure drop > 350 mbar | After 4.000 operating hours or 1 year | After 4.000 operating hours or 1 year | After 4.000 operating hours or 1 year    | After 1.000 operating hours (at 20°C) or 1 year |
| Precede with                                                 | -                                                                 | S                                                                 | water separator                       | G                                     | -                                        | G & C                                           |

\* MPPS = Most Penetrating Particle Size

\*\* Inlet oil concentration = 10 mg/m³

# Chicago Pneumatic Original Parts

## Engineered lubricants



Chicago Pneumatic tailored coolants you can trust.

1. Do not limit warranty of compressor.
2. Maximum performance & efficiency.
3. Tested and approved for all applications & environments.
4. Increase significantly the reliability & minimizes risks absolutely.
5. Extending the compressors' lifetime.
6. Offer a firm grip on maintenance cost.

**Lubricants are of vital importance.**

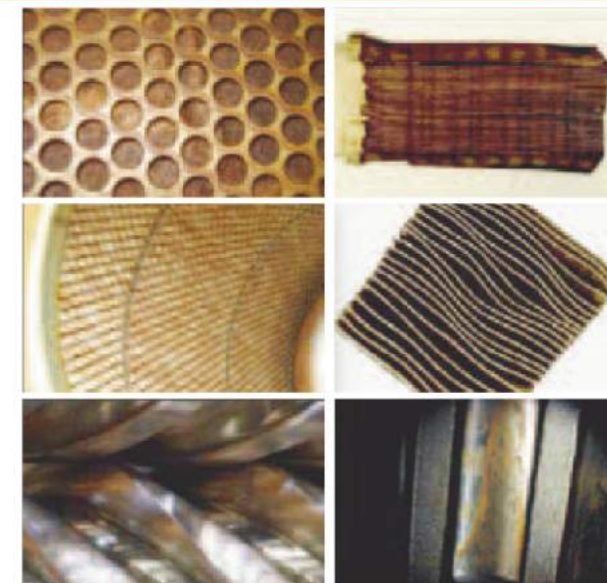
## Risks you can avoid

The use of low performance lubricants will damage irreversibly your equipment and lead to high maintenance and repair cost.

The consequences of poor performing lubricants can be:

- Main root cause of premature compression element failure.
- Wear of components, increased friction, cavitations.
- Reduced cooling, resulting in overheating bearings, compression elements and other components.
- Reduced critical clearance.
- Corrosion.
- Wrong ph, damage of parts, seals and internals.
- Varnish layer on internal parts (coolers, piping etc).
- Low performance, higher energy consumption, higher cost.
- Deposits.
- High unpredictable maintenance cost.
- Clogging of oil filter, separator and down stream air filters.
- Limited operation range.

**ScrewGuard chemical properties are specifically engineered to maximize the reliability of every single component of your compressor.**



**Look for your quality assurance! Use Chicago Pneumatic Original Parts**

Chicago Pneumatic is always at your service with comprehensive screw kits:

- Easy
- Guaranteed long lifetime
- Reliable operation
- All-in-one cost effectiveness



| Description          | Package Size | Order Number | Applications                                                                                      |
|----------------------|--------------|--------------|---------------------------------------------------------------------------------------------------|
| ScrewGuard           | 5 L          | 6215 7140 00 | Heavy industrial applications.<br>Mild temperature environment.<br>2000h drain interval / 1 year. |
|                      | 20 L         | 6215 7141 00 |                                                                                                   |
|                      | 209 L        | 6215 7142 00 |                                                                                                   |
| ScrewGuard Plus      | 5 L          | 6215 7144 00 | From low to high duty operation.<br>Mild climate.<br>4000h drain interval / 1 year.               |
|                      | 20 L         | 6215 7145 00 |                                                                                                   |
|                      | 209 L        | 6215 7146 00 |                                                                                                   |
| ScrewGuard Xtra      | 5 L          | 6215 7148 00 | Fully synthetic lubricant.<br>Long drain interval (8000h).<br>High ambient condition.             |
|                      | 20 L         | 6215 7149 00 |                                                                                                   |
|                      | 209 L        | 6215 7150 00 |                                                                                                   |
| ScrewGuard FoodGrade | 20 L         | 6215 7153 00 | Packaging & Food (4000h).                                                                         |