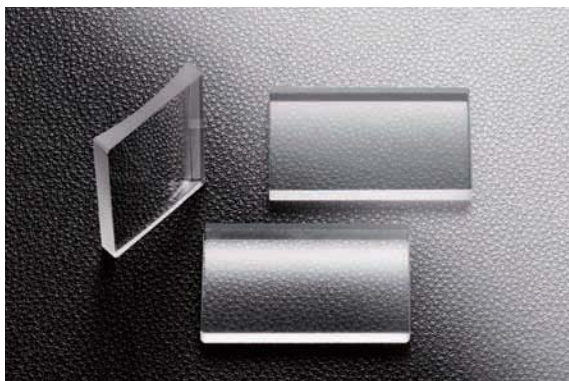


# Cylindrical Plano-concave Lenses | CPCL-N/CPCQL-N



**Cylindrical plano-concave lens has a concave curvature in the vertical direction and has no curvature in the horizontal direction. Used in such applications in combination with a plano-convex cylindrical, elliptical shaped beam to a circular beam of semiconductor laser.**

- There are two types available; BK7 for from visible range to infrared wavelength range, high-strength synthetic fused silica which has high laser damage threshold used in less than 350nm ultraviolet light.
- Made of BK7 lenses are also available with three types of anti-reflection coating in the infrared wavelength, near-infrared wavelength and visible wavelength.
- By using a cylindrical lens in the optical system, it is available to change the shape and aspect ratio of the illumination light beam.



| Specifications                |  |
|-------------------------------|--|
| Material                      | CLB: BK7 CLSQ: Synthetic fused silica  |
| Design wavelength             | 546.1nm  |
| Refractive index              | BK: $n_d=1.519$<br>Synthetic fused silica: $n_d=1.460$   |
| Coating                       | Uncoated: the end of the part number 'N'<br>Anti-reflection coating: the end of the part number 'NM', 'NIR1', 'NIR2' |
| Laser Damage Threshold        | Anti-reflection coating: $4J/cm^2$<br>Laser pulse with 10ns, repetition frequency 20Hz                               |
| Clear aperture                | 90% of square or rectangle to actual dimension   |
| Surface Quality (Scratch-Dig) | 20-10  |

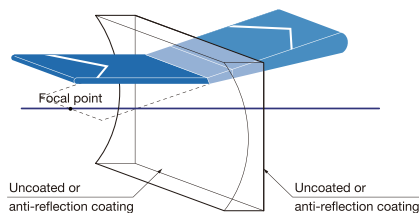
### Guide

- ▶ It is also available other than the products which listed in the catalog such as focal length and outer diameter size.
- ▶ Production is also available with a specific wavelength of anti-reflective coating on the lens of no coated.
- ▶ To fix the cylindrical lenses, it is available cylindrical lens holders (cf. CHA). [Reference](#) D031

### Attention

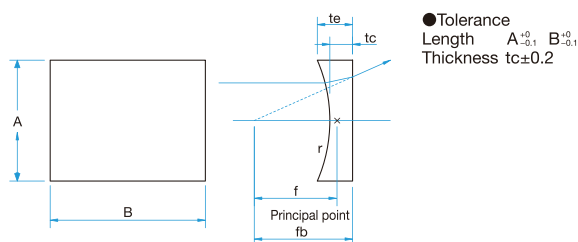
- ▶ The cylindrical plano-concave lens has chromatic aberration, the focal length will vary depending on the wavelength. Please check the "wavelength characteristic of the focal length data" on the Web for the focal lengths of each wavelength. [WEB Reference](#) [Catalog Code](#) W3068
- ▶ There is a direction to put light in a plano-concave cylindrical lens. Please let the incident parallel light from the concave side. There is a possibility that the spherical aberration increases when in reverse, the optical performance of the system will not be appropriate.
- ▶ Losses due to reflection of the front and rear surfaces of the lens, the transmittance of no coated is about 90%.

### Schematic



### Outline Drawing

(in mm)



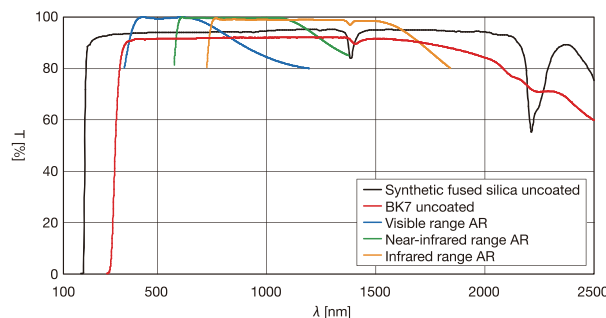
### How to specify the anti-reflection coating

In case of specifying a anti-reflection coating 633nm – 1064nm to near infrared lens of CPCL-3050-200N.  
 ⇒ CPCL-3050-200NIR1

| Type of AR Coat | Part Number              | Wavelength Range [nm] | Transmittance [%] |
|-----------------|--------------------------|-----------------------|-------------------|
| Visible range   | <b>CPCL-3050-200NM</b>   | 400 – 700             | > Average 99      |
| Near-infrared   | <b>CPCL-3050-200NIR1</b> | 633 – 1064            | > Average 98.5    |
| Infrared        | <b>CPCL-3050-200NIR2</b> | 750 – 1550            | > Average 98.5    |

- ! Part of the above is an example of if you want to coat anti-reflective coating on the lens of the CPCL-3050-200N.
- ! Anti-reflection coating can be available to the lens of all of CPCL.

### Typical Transmittance Data T: Transmission



### Compatible Optic Mounts

ACLH-25,-60

Application Systems

Machine Vision

Manual Positions

Motion Control Products

Optical & Mirror Holder

F A Parts

Measurement & Control

FA Electrical Parts

Tool & Measure

Cleanroom & AntiStatic

Index

Mirrors

Beamsplitters

Filters

Polarizers

Lenses

Multi-Element Optics

Prisms

Substrates & Windows

Holder & Vibration isolator

## Cylindrical Plano-concave Lenses

## CPCL-N/CPCL-N

Application Systems

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Mirrors

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Holder & Vibration isolator

| BK7 10x10mm – 30x50mm |  |                            |                       |          |                     |                               |                                 |                           |                            |
|-----------------------|--|----------------------------|-----------------------|----------|---------------------|-------------------------------|---------------------------------|---------------------------|----------------------------|
| Uncoated              | How to specify the anti-reflection coating |                            |                       | AxB [mm] | Focal length f [mm] | Thickness of the edge te [mm] | Thickness of the center tc [mm] | Back focal length fb [mm] | Radius of curvature r [mm] |
| Part Number           | Visibe 400 – 700nm                         | Near-infrared 633 – 1064nm | Infrared 750 – 1550nm |          |                     |                               |                                 |                           |                            |
| CPCL-1010-15N         | M  | IR1                        | IR2                   | 10x10    | -15                 | 4.0                           | 2.2                             | -16.4                     | 7.79                       |
| CPCL-1010-20N         | M  | IR1                        | IR2                   | 10x10    | -20                 | 3.0                           | 1.7                             | -21.1                     | 10.38                      |
| CPCL-1010-25N         | M  | IR1                        | IR2                   | 10x10    | -25                 | 3.0                           | 2.0                             | -26.3                     | 12.98                      |
| CPCL-1010-30N         | M  | IR1                        | IR2                   | 10x10    | -30                 | 3.0                           | 2.2                             | -31.4                     | 15.57                      |
| CPCL-1010-40N         | M  | IR1                        | IR2                   | 10x10    | -40                 | 3.0                           | 2.4                             | -41.6                     | 20.76                      |
| CPCL-1020-15N         | M  | IR1                        | IR2                   | 10x20    | -15                 | 4.0                           | 2.2                             | -16.4                     | 7.79                       |
| CPCL-1020-20N         | M  | IR1                        | IR2                   | 10x20    | -20                 | 3.0                           | 1.7                             | -21.1                     | 10.38                      |
| CPCL-1020-25N         | M  | IR1                        | IR2                   | 10x20    | -25                 | 3.0                           | 2.0                             | -26.3                     | 12.98                      |
| CPCL-1020-30N         | M  | IR1                        | IR2                   | 10x20    | -30                 | 3.0                           | 2.2                             | -31.4                     | 15.57                      |
| CPCL-1020-40N         | M  | IR1                        | IR2                   | 10x20    | -40                 | 3.0                           | 2.4                             | -41.6                     | 20.76                      |
| CPCL-1515-20N         | M  | IR1                        | IR2                   | 15x15    | -20                 | 5.0                           | 1.8                             | -21.2                     | 10.38                      |
| CPCL-1515-25N         | M  | IR1                        | IR2                   | 15x15    | -25                 | 5.0                           | 2.6                             | -26.7                     | 12.98                      |
| CPCL-1515-30N         | M  | IR1                        | IR2                   | 15x15    | -30                 | 4.0                           | 2.1                             | -31.4                     | 15.57                      |
| CPCL-1515-40N         | M  | IR1                        | IR2                   | 15x15    | -40                 | 4.0                           | 2.6                             | -41.7                     | 20.76                      |
| CPCL-1525-20N         | M  | IR1                        | IR2                   | 15x25    | -20                 | 5.0                           | 1.8                             | -21.2                     | 10.38                      |
| CPCL-1525-25N         | M  | IR1                        | IR2                   | 15x25    | -25                 | 5.0                           | 2.6                             | -26.7                     | 12.98                      |
| CPCL-1525-30N         | M  | IR1                        | IR2                   | 15x25    | -30                 | 4.0                           | 2.1                             | -31.4                     | 15.57                      |
| CPCL-1525-40N         | M  | IR1                        | IR2                   | 15x25    | -40                 | 4.0                           | 2.6                             | -41.7                     | 20.76                      |
| CPCL-2020-25N         | M  | IR1                        | IR2                   | 20x20    | -25                 | 7.0                           | 2.3                             | -26.5                     | 12.98                      |
| CPCL-2020-30N         | M  | IR1                        | IR2                   | 20x20    | -30                 | 6.0                           | 2.4                             | -31.6                     | 15.57                      |
| CPCL-2020-40N         | M  | IR1                        | IR2                   | 20x20    | -40                 | 5.0                           | 2.4                             | -41.6                     | 20.76                      |
| CPCL-2020-50N         | M  | IR1                        | IR2                   | 20x20    | -50                 | 4.0                           | 2.0                             | -51.3                     | 25.95                      |
| CPCL-2020-60N         | M  | IR1                        | IR2                   | 20x20    | -60                 | 4.0                           | 2.4                             | -61.5                     | 31.14                      |
| CPCL-2020-70N         | M  | IR1                        | IR2                   | 20x20    | -70                 | 4.0                           | 2.6                             | -71.7                     | 36.33                      |
| CPCL-2020-80N         | M  | IR1                        | IR2                   | 20x20    | -80                 | 4.0                           | 2.8                             | -81.8                     | 41.52                      |
| CPCL-2020-100N        | M  | IR1                        | IR2                   | 20x20    | -100                | 4.0                           | 3.0                             | -102.0                    | 51.90                      |
| CPCL-2020-130N        | M  | IR1                        | IR2                   | 20x20    | -130                | 4.0                           | 3.3                             | -132.1                    | 67.47                      |
| CPCL-2020-150N        | M  | IR1                        | IR2                   | 20x20    | -150                | 4.0                           | 3.4                             | -152.2                    | 77.85                      |
| CPCL-2020-200N        | M  | IR1                        | IR2                   | 20x20    | -200                | 4.0                           | 3.5                             | -202.3                    | 103.80                     |
| CPCL-2020-250N        | M  | IR1                        | IR2                   | 20x20    | -250                | 4.0                           | 3.6                             | -252.4                    | 129.75                     |
| CPCL-2020-300N        | M  | IR1                        | IR2                   | 20x20    | -300                | 4.0                           | 3.7                             | -302.4                    | 155.70                     |
| CPCL-2030-100N        | M  | IR1                        | IR2                   | 20x30    | -100                | 4.0                           | 3.0                             | -102.0                    | 51.90                      |
| CPCL-2030-130N        | M  | IR1                        | IR2                   | 20x30    | -130                | 4.0                           | 3.3                             | -132.1                    | 67.47                      |
| CPCL-2030-150N        | M  | IR1                        | IR2                   | 20x30    | -150                | 4.0                           | 3.4                             | -152.2                    | 77.85                      |
| CPCL-2030-200N        | M  | IR1                        | IR2                   | 20x30    | -200                | 4.0                           | 3.5                             | -202.3                    | 103.80                     |
| CPCL-2030-250N        | M  | IR1                        | IR2                   | 20x30    | -250                | 4.0                           | 3.6                             | -252.4                    | 129.75                     |
| CPCL-2030-300N        | M  | IR1                        | IR2                   | 20x30    | -300                | 4.0                           | 3.7                             | -302.4                    | 155.70                     |
| CPCL-2040-25N         | M  | IR1                        | IR2                   | 20x40    | -25                 | 7.0                           | 2.3                             | -26.5                     | 12.98                      |
| CPCL-2040-30N         | M  | IR1                        | IR2                   | 20x40    | -30                 | 6.0                           | 2.4                             | -31.6                     | 15.57                      |
| CPCL-2040-40N         | M  | IR1                        | IR2                   | 20x40    | -40                 | 5.0                           | 2.4                             | -41.6                     | 20.76                      |
| CPCL-2040-50N         | M  | IR1                        | IR2                   | 20x40    | -50                 | 4.0                           | 2.0                             | -51.3                     | 25.95                      |
| CPCL-2040-60N         | M  | IR1                        | IR2                   | 20x40    | -60                 | 4.0                           | 2.4                             | -61.5                     | 31.14                      |
| CPCL-2040-70N         | M  | IR1                        | IR2                   | 20x40    | -70                 | 4.0                           | 2.6                             | -71.7                     | 36.33                      |
| CPCL-2040-80N         | M  | IR1                        | IR2                   | 20x40    | -80                 | 4.0                           | 2.8                             | -81.8                     | 41.52                      |
| CPCL-2050-100N        | M  | IR1                        | IR2                   | 20x50    | -100                | 4.0                           | 3.0                             | -102.0                    | 51.90                      |
| CPCL-2050-130N        | M  | IR1                        | IR2                   | 20x50    | -130                | 4.0                           | 3.3                             | -132.1                    | 67.47                      |
| CPCL-2050-150N        | M  | IR1                        | IR2                   | 20x50    | -150                | 4.0                           | 3.4                             | -152.2                    | 77.85                      |
| CPCL-2050-200N        | M  | IR1                        | IR2                   | 20x50    | -200                | 4.0                           | 3.5                             | -202.3                    | 103.80                     |
| CPCL-2050-250N        | M  | IR1                        | IR2                   | 20x50    | -250                | 4.0                           | 3.6                             | -252.4                    | 129.75                     |
| CPCL-2050-300N        | M  | IR1                        | IR2                   | 20x50    | -300                | 4.0                           | 3.7                             | -302.4                    | 155.70                     |
| CPCL-3030-50N         | M  | IR1                        | IR2                   | 30x30    | -50                 | 7.0                           | 2.2                             | -51.5                     | 25.95                      |
| CPCL-3030-60N         | M  | IR1                        | IR2                   | 30x30    | -60                 | 6.0                           | 2.1                             | -61.4                     | 31.14                      |
| CPCL-3030-70N         | M  | IR1                        | IR2                   | 30x30    | -70                 | 5.0                           | 1.8                             | -71.2                     | 36.33                      |
| CPCL-3030-80N         | M  | IR1                        | IR2                   | 30x30    | -80                 | 5.0                           | 2.2                             | -81.4                     | 41.52                      |
| CPCL-3030-100N        | M  | IR1                        | IR2                   | 30x30    | -100                | 5.0                           | 2.8                             | -101.8                    | 51.90                      |
| CPCL-3030-130N        | M  | IR1                        | IR2                   | 30x30    | -130                | 5.0                           | 3.3                             | -132.2                    | 67.47                      |
| CPCL-3030-150N        | M  | IR1                        | IR2                   | 30x30    | -150                | 5.0                           | 3.5                             | -152.3                    | 77.85                      |
| CPCL-3030-200N        | M  | IR1                        | IR2                   | 30x30    | -200                | 5.0                           | 3.9                             | -202.6                    | 103.80                     |
| CPCL-3030-250N        | M  | IR1                        | IR2                   | 30x30    | -250                | 5.0                           | 4.1                             | -252.7                    | 129.75                     |
| CPCL-3030-300N        | M  | IR1                        | IR2                   | 30x30    | -300                | 5.0                           | 4.3                             | -302.8                    | 155.70                     |
| CPCL-3040-50N         | M  | IR1                        | IR2                   | 30x40    | -50                 | 7.0                           | 2.2                             | -51.5                     | 25.95                      |
| CPCL-3040-60N         | M  | IR1                        | IR2                   | 30x40    | -60                 | 6.0                           | 2.1                             | -61.4                     | 31.14                      |
| CPCL-3040-70N         | M  | IR1                        | IR2                   | 30x40    | -70                 | 5.0                           | 1.8                             | -71.2                     | 36.33                      |
| CPCL-3040-80N         | M  | IR1                        | IR2                   | 30x40    | -80                 | 5.0                           | 2.2                             | -81.4                     | 41.52                      |
| CPCL-3050-100N        | M  | IR1                        | IR2                   | 30x50    | -100                | 5.0                           | 2.8                             | -101.8                    | 51.90                      |
| CPCL-3050-130N        | M  | IR1                        | IR2                   | 30x50    | -130                | 5.0                           | 3.3                             | -132.2                    | 67.47                      |
| CPCL-3050-150N        | M  | IR1                        | IR2                   | 30x50    | -150                | 5.0                           | 3.5                             | -152.3                    | 77.85                      |
| CPCL-3050-200N        | M  | IR1                        | IR2                   | 30x50    | -200                | 5.0                           | 3.9                             | -202.6                    | 103.80                     |
| CPCL-3050-250N        | M  | IR1                        | IR2                   | 30x50    | -250                | 5.0                           | 4.1                             | -252.7                    | 129.75                     |
| CPCL-3050-300N        | M  | IR1                        | IR2                   | 30x50    | -300                | 5.0                           | 4.3                             | -302.8                    | 155.70                     |

**Synthetic fused silica 10×10mm – 30×50mm**

| Part Number     | AxB [mm] | Focal length f [mm] | Thickness of the edge te [mm] | Thickness of the center tc [mm] | Back focal length fb [mm] | Radius of curvature r [mm] |
|-----------------|----------|---------------------|-------------------------------|---------------------------------|---------------------------|----------------------------|
| CPCQL-1010-15N  | 10×10    | -15                 | 4.0                           | 1.9                             | -16.3                     | 6.90                       |
| CPCQL-1010-20N  | 10×10    | -20                 | 3.0                           | 1.5                             | -21.0                     | 9.20                       |
| CPCQL-1010-25N  | 10×10    | -25                 | 3.0                           | 1.9                             | -26.3                     | 11.50                      |
| CPCQL-1010-30N  | 10×10    | -30                 | 3.0                           | 2.1                             | -31.4                     | 13.80                      |
| CPCQL-1010-40N  | 10×10    | -40                 | 3.0                           | 2.3                             | -41.6                     | 18.40                      |
| CPCQL-1020-15N  | 10×20    | -15                 | 4.0                           | 1.9                             | -16.3                     | 6.90                       |
| CPCQL-1020-20N  | 10×20    | -20                 | 3.0                           | 1.5                             | -21.0                     | 9.20                       |
| CPCQL-1020-25N  | 10×20    | -25                 | 3.0                           | 1.9                             | -26.3                     | 11.50                      |
| CPCQL-1020-30N  | 10×20    | -30                 | 3.0                           | 2.1                             | -31.4                     | 13.80                      |
| CPCQL-1020-40N  | 10×20    | -40                 | 3.0                           | 2.3                             | -41.6                     | 18.40                      |
| CPCQL-1515-20N  | 15×15    | -20                 | 6.0                           | 2.1                             | -21.5                     | 9.20                       |
| CPCQL-1515-25N  | 15×15    | -25                 | 5.0                           | 2.2                             | -26.5                     | 11.50                      |
| CPCQL-1515-30N  | 15×15    | -30                 | 4.0                           | 1.8                             | -31.2                     | 13.80                      |
| CPCQL-1515-40N  | 15×15    | -40                 | 4.0                           | 2.4                             | -41.6                     | 18.40                      |
| CPCQL-1525-20N  | 15×25    | -20                 | 6.0                           | 2.1                             | -21.5                     | 9.20                       |
| CPCQL-1525-25N  | 15×25    | -25                 | 5.0                           | 2.2                             | -26.5                     | 11.50                      |
| CPCQL-1525-30N  | 15×25    | -30                 | 4.0                           | 1.8                             | -31.2                     | 13.80                      |
| CPCQL-1525-40N  | 15×25    | -40                 | 4.0                           | 2.4                             | -41.6                     | 18.40                      |
| CPCQL-2020-25N  | 20×20    | -25                 | 7.0                           | 1.2                             | -25.8                     | 11.50                      |
| CPCQL-2020-30N  | 20×20    | -30                 | 6.0                           | 1.7                             | -31.2                     | 13.80                      |
| CPCQL-2020-40N  | 20×20    | -40                 | 5.0                           | 2.0                             | -41.4                     | 18.40                      |
| CPCQL-2020-50N  | 20×20    | -50                 | 4.0                           | 1.7                             | -51.2                     | 23.00                      |
| CPCQL-2020-60N  | 20×20    | -60                 | 4.0                           | 2.1                             | -61.5                     | 27.60                      |
| CPCQL-2020-70N  | 20×20    | -70                 | 4.0                           | 2.4                             | -71.6                     | 32.20                      |
| CPCQL-2020-80N  | 20×20    | -80                 | 4.0                           | 2.6                             | -81.8                     | 36.80                      |
| CPCQL-2020-100N | 20×20    | -100                | 4.0                           | 2.9                             | -102.0                    | 46.00                      |
| CPCQL-2020-130N | 20×20    | -130                | 4.0                           | 3.2                             | -132.2                    | 59.80                      |
| CPCQL-2020-150N | 20×20    | -150                | 4.0                           | 3.3                             | -152.2                    | 69.00                      |
| CPCQL-2020-200N | 20×20    | -200                | 4.0                           | 3.5                             | -202.4                    | 92.00                      |
| CPCQL-2020-250N | 20×20    | -250                | 4.0                           | 3.6                             | -252.4                    | 115.00                     |
| CPCQL-2020-300N | 20×20    | -300                | 4.0                           | 3.6                             | -302.5                    | 138.00                     |
| CPCQL-2040-25N  | 20×40    | -25                 | 7.0                           | 1.2                             | -25.8                     | 11.50                      |
| CPCQL-2040-30N  | 20×40    | -30                 | 6.0                           | 1.7                             | -31.2                     | 13.80                      |
| CPCQL-2040-40N  | 20×40    | -40                 | 5.0                           | 2.0                             | -41.4                     | 18.40                      |
| CPCQL-2040-50N  | 20×40    | -50                 | 4.0                           | 1.7                             | -51.2                     | 23.00                      |
| CPCQL-2040-60N  | 20×40    | -60                 | 4.0                           | 2.1                             | -61.5                     | 27.60                      |
| CPCQL-2040-70N  | 20×40    | -70                 | 4.0                           | 2.4                             | -71.6                     | 32.20                      |
| CPCQL-2040-80N  | 20×40    | -80                 | 4.0                           | 2.6                             | -81.8                     | 36.80                      |
| CPCQL-2050-100N | 20×50    | -100                | 4.0                           | 2.9                             | -102.0                    | 46.00                      |
| CPCQL-2050-130N | 20×50    | -130                | 4.0                           | 3.2                             | -132.2                    | 59.80                      |
| CPCQL-2050-150N | 20×50    | -150                | 4.0                           | 3.3                             | -152.2                    | 69.00                      |
| CPCQL-2050-200N | 20×50    | -200                | 4.0                           | 3.5                             | -202.4                    | 92.00                      |
| CPCQL-2050-250N | 20×50    | -250                | 4.0                           | 3.6                             | -252.4                    | 115.00                     |
| CPCQL-2050-300N | 20×50    | -300                | 4.0                           | 3.6                             | -302.5                    | 138.00                     |
| CPCQL-3030-50N  | 30×30    | -50                 | 7.0                           | 1.4                             | -51.0                     | 23.00                      |
| CPCQL-3030-60N  | 30×30    | -60                 | 6.0                           | 1.6                             | -61.1                     | 27.60                      |
| CPCQL-3030-70N  | 30×30    | -70                 | 6.0                           | 2.3                             | -71.6                     | 32.20                      |
| CPCQL-3030-80N  | 30×30    | -80                 | 5.0                           | 1.8                             | -81.2                     | 36.80                      |
| CPCQL-3030-100N | 30×30    | -100                | 5.0                           | 2.5                             | -101.7                    | 46.00                      |
| CPCQL-3030-130N | 30×30    | -130                | 5.0                           | 3.1                             | -132.1                    | 59.80                      |
| CPCQL-3030-150N | 30×30    | -150                | 5.0                           | 3.3                             | -152.3                    | 69.00                      |
| CPCQL-3030-200N | 30×30    | -200                | 5.0                           | 3.8                             | -202.6                    | 92.00                      |
| CPCQL-3030-250N | 30×30    | -250                | 5.0                           | 4.0                             | -252.8                    | 115.00                     |
| CPCQL-3030-300N | 30×30    | -300                | 5.0                           | 4.2                             | -302.9                    | 138.00                     |
| CPCQL-3040-50N  | 30×40    | -50                 | 7.0                           | 1.4                             | -51.0                     | 23.00                      |
| CPCQL-3040-60N  | 30×40    | -60                 | 6.0                           | 1.6                             | -61.1                     | 27.60                      |
| CPCQL-3040-70N  | 30×40    | -70                 | 6.0                           | 2.3                             | -71.6                     | 32.20                      |
| CPCQL-3040-80N  | 30×40    | -80                 | 5.0                           | 1.8                             | -81.2                     | 36.80                      |
| CPCQL-3050-100N | 30×50    | -100                | 5.0                           | 2.5                             | -101.7                    | 46.00                      |
| CPCQL-3050-130N | 30×50    | -130                | 5.0                           | 3.1                             | -132.1                    | 59.80                      |
| CPCQL-3050-150N | 30×50    | -150                | 5.0                           | 3.3                             | -152.3                    | 69.00                      |
| CPCQL-3050-200N | 30×50    | -200                | 5.0                           | 3.8                             | -202.6                    | 92.00                      |
| CPCQL-3050-250N | 30×50    | -250                | 5.0                           | 4.0                             | -252.8                    | 115.00                     |
| CPCQL-3050-300N | 30×50    | -300                | 5.0                           | 4.2                             | -302.9                    | 138.00                     |

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