

# GPC 100Z

GPC Module

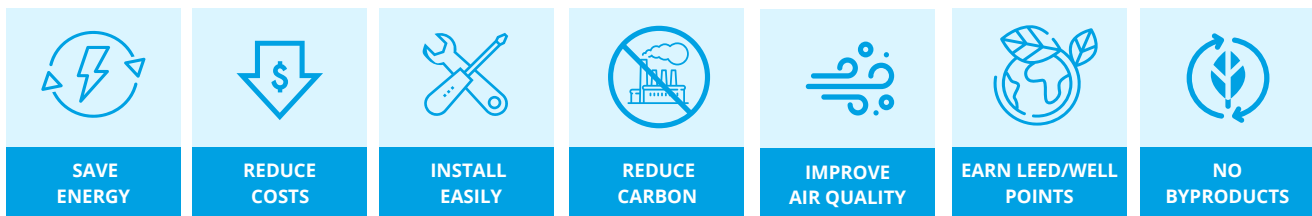


## Decrease Energy Consumption, Lower HVAC Costs

The GPC 100Z module provides lower HVAC costs by reducing the load on HVAC systems from outdoor air. The GPC 100Z cleans indoor air so that it can be safely recirculated, complying with ASHRAE Standard 62.1 and is easily integrated with most HVAC system designs (including VRF). The award-winning, industry-proven Gas Phase Air Cleaning Technology inside the GPC 100Z helps owners lower equipment replacement costs, decrease energy consumption, and achieve decarbonization goals with the easiest, most cost-effective ventilation solution on the market.



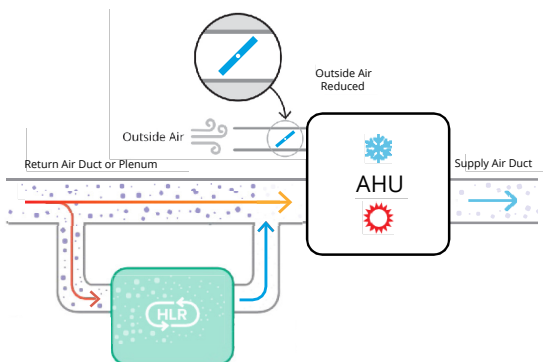
GPC 100Z Module



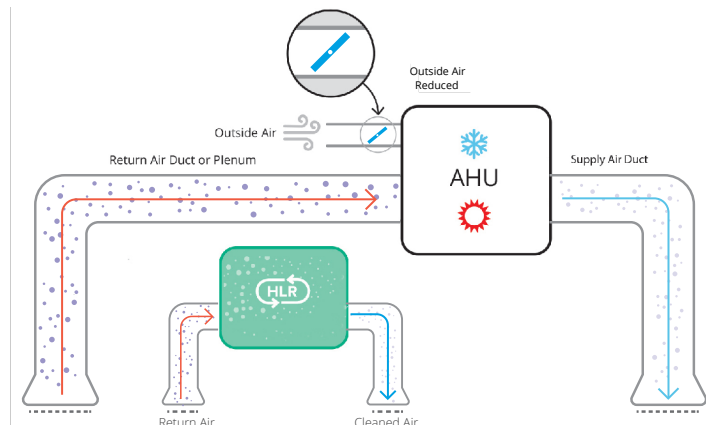
## How it Works

**Indoor Air Scrubbing** – One or more GPC 100Z modules can be installed on the return side of an air handling unit (AHU), a fan coil unit (FCU), or independent of the AHU/FCU. Air is drawn into the GPC 100Z by internal fans, which push the air through sorbent filters that capture and remove all the contaminants of concern from the air stream. Without producing any byproducts, the GPC 100Z then pushes clean air back into the return air stream or space. By cleaning recirculated air, outside air ventilation rates can be safely reduced by up to 85%, and new HVAC equipment can be downsized, using the ASHRAE Standard 62.1 IAQ Procedure.

### Integrated with Airside Equipment



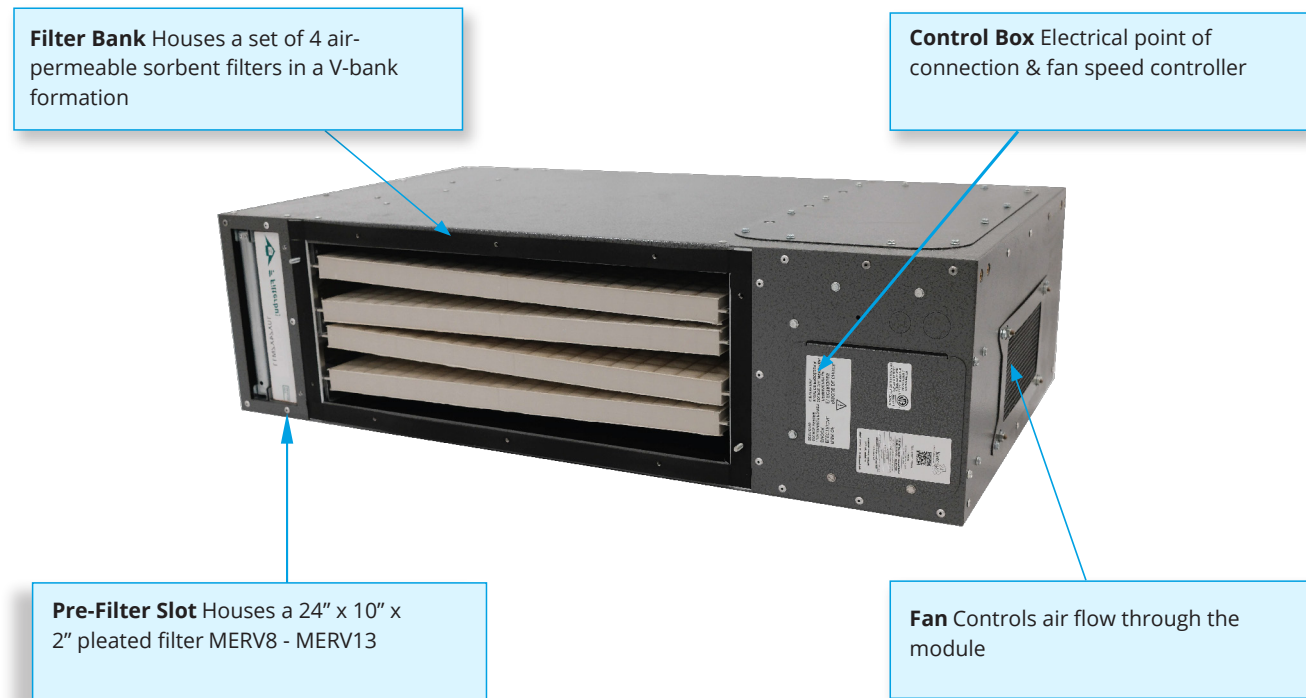
### Independent, Directly in Occupied Space



## What's Inside the GPC 100Z Module?

### Broadly Applicable

The GPC 100Z is a small indoor GPC module that integrates with a wide range of zone-based HVAC systems found in offices, schools, retail and other commercial building types that fall under ASHRAE Standard 62.1. Given its small size, flexible orientations, and simple installation, the GPC 100Z is ideally suited for existing building retrofits and new construction.



**Office Spaces**



**Retail**



**K-12 Schools**



**Higher Education**

### Proven, Award Winning Gas Phase Air Cleaning Technology

Over 1,000 GPC modules with Gas Phase Air Cleaning Technology have been designed into building ventilation systems around the world by leading consulting engineers and HVAC contractors. Air cleaning efficiency has been validated by ASHRAE 145.2 testing, and energy savings field validated by the U.S. Department of Energy and multiple utilities who have provided incentives for installing GPC modules. Unlike many other air cleaning technologies, independent lab tests show that Gas Phase Air Cleaning Technology does not produce any byproducts. Gas Phase Air Cleaning Technology enabled products have been nominated for and won various awards including the GPC 100M winning 2021 HVAC Product of the Year from Consulting-Specifying Engineer magazine.



# 100Z Module Specifications

## GENERAL SPECS

|                            |                                                                  |
|----------------------------|------------------------------------------------------------------|
| Installation               | Mechanical Room or Air Plenum                                    |
| Construction               | Single wall, Powder-coated Galvanized Steel                      |
| Sorbent Filters per Set    | 4                                                                |
| Typical Airflow            | 350 CFM                                                          |
| Sound Power Level          | 58 dBA, 350 CFM, ducted @ 3'                                     |
| Maximum Allowed            | 0.6 WG / 150 Pa                                                  |
| External Static Pressure   | with MERV 11 Pre-Filter*                                         |
| Entering Air Conditions    | Non-condensing, ≤65% RH, ≤18°C (64°F) dew point                  |
| Maintenance Operating Life | Two-year Filter Replacement 3 to 6-month Pre-Filter Replacement* |
|                            | 20+ years with scheduled maintenance                             |

## COMMUNICATIONS

|            |           |
|------------|-----------|
| Fan Speed  | 0-10 VDC  |
| Start/Stop | 24 VAC/DC |

## POWER

| Voltage (VAC) | Frequency (HZ) | MCA   | MOCP |
|---------------|----------------|-------|------|
| 208-277 V     | 50/60 Hz       | 1.5 A | 15 A |

## WEIGHTS

|                               |         |       |
|-------------------------------|---------|-------|
| Module Shipping Weight        | 97 lbs  | 44kg  |
| Filter Shipping Weight        | 66 lbs  | 30 kg |
| Installation/Operating Weight | 163 lbs | 74kg  |

## DIMENSIONS (Front View)

|             |                                                                       |
|-------------|-----------------------------------------------------------------------|
| Length      | 40.8" / 1,036 mm                                                      |
| Height      | 11.3" / 287 mm                                                        |
| Depth       | 23.9" / 607 mm<br>(Allow Additional 24" Clearance for Filter Service) |
| Inlet Duct  | 12.0" x 6.0"<br>305mm x 152mm                                         |
| Outlet Duct | 9.0" x 4.0"<br>229 mm x 102mm                                         |

## CERTIFICATIONS

|                                           |                                                          |
|-------------------------------------------|----------------------------------------------------------|
| GPC Module Safety                         | UL 60335-2-40:2022 Ed.4<br>CSA 22.2:60335-2-40:2022 Ed.4 |
| Filter Bank and Filters                   | UL 900:2015 Ed.8                                         |
| Air Cleaning Efficiency                   | ASHRAE 145.2                                             |
| Compliant under ASHRAE 62.1 and IMC 403.2 |                                                          |

## ASHRAE Standard Compliance

### Standard 62.1 for Ventilation and Acceptable Indoor Air Quality

All of Daikin's GPC products are fully compliant under ASHRAE Standard 62.1. By using ASHRAE's performance-based Indoor Air Quality Procedure (IAQP) rather than the prescriptive Ventilation Rate Procedure (VRP), engineers can calculate a minimum ventilation rate that optimizes indoor air quality and energy efficiency. Introduced in 1981, IAQP determines outdoor air intake rates based on an analysis of contaminant sources and air cleaning capacity to stay below recommended contaminant concentration limits.

### Standard 145.2 for Assessing the Performance of Gas Phase Air Cleaning Systems

GPC technology is one of the only air cleaning technologies to have undergone independent lab tests for cleaning efficiency using ASHRAE Standard 145.2. Independent labs have conducted ASHRAE 145.2 single-pass efficiency testing for all the contaminants of concern required to maintain acceptable indoor air quality in buildings.

\* The Pre-Filter replacement frequency varies based on building conditions. Daikin Applied recommends changing it on the same schedule as other building filters.