



# Cool-Line HCU

## HCU SERIES FEATURES

- Hydronucleation technology for de-aeration
- Competitive pricing and assembles from stock
- Includes two internal bypasses
- Fan Drive options:
  - 12/24 VDC brushless
  - 12/24 VDC brushed
  - Hydraulic drive
- Optional fan speed control



MADE IN THE USA

# GLOBAL STANDARD COOLING SYSTEMS (HCU SERIES)

## PRODUCT INFORMATION

**AKG HCU Series** is a standard line of products from the market leader in high performance aluminum cooling systems. AKG is best known for its global presence, German engineering, and reliable product quality.

The Cool-Line embraces an all-purpose complete cooling systems that is suited for rugged environmental operating conditions. AKG's HCU features a DC - or hydraulic-motor - driven fan with noise reduction options.

All of AKG's solutions have been developed with state-of-the-art technology, produced in compliance with the highest quality standards and are comprehensively tested.

## FEATURES OF THE HCU MODEL

- Industry leading patented de-aeration technology in reservoir
- The coolers are equipped with non-louvered low fouling fins
- Heat rejection of 18-hp @ 80°F ETD
- Noise reduction 3M adhered foam
- Stainless steel / Aluminum construction with premium coating
- Vibration tested to military standards (MIL-STD 810)
- Sight level glass



## HCU-SERIES BENEFITS

- Highly flexible, ready to mount for offline cooling package
- Compact and robust design, field-tested in rugged real life conditions
- Optimized plumbing - reduction of leak points
- AKG offers competitive pricing and deliveries from stock through our exclusive distribution network.
- Filter By-pass feature

## CONFIGURATIONS

### Brushless 12/24VDC Fan Drive

- 40,000 hour fan motor life
- IP69 rated fan motor
- Optional PWM Controller & Wiring Harness

### Hydraulic Fan Drive

- Maximum system pressure - 3,000 psi
- Operating speed 4,000-rpm
- Optional pressure compensated fan drive

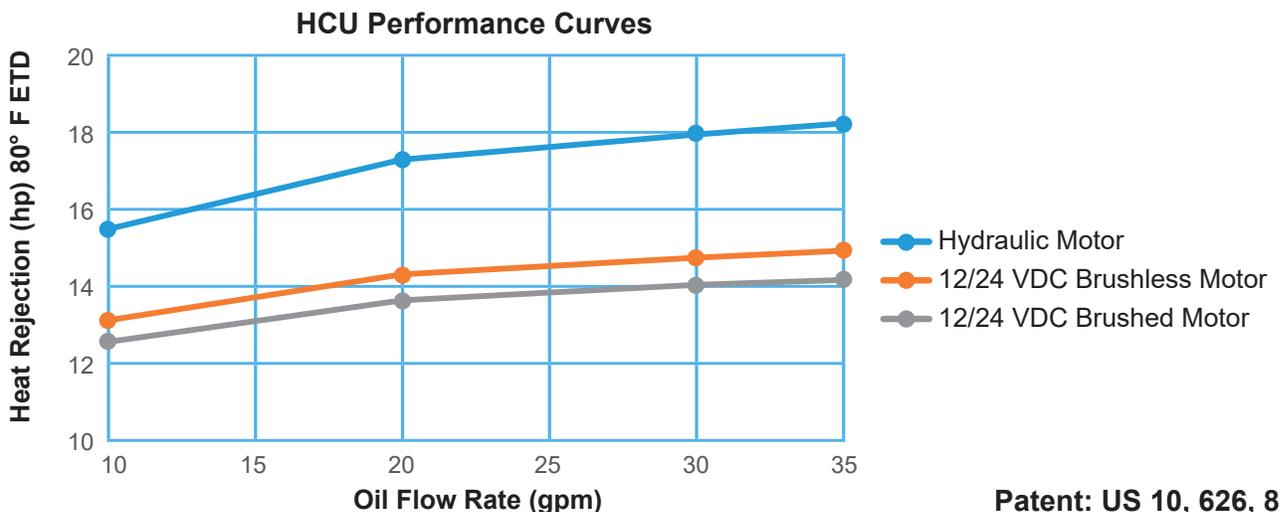
### Brushed 12/24VDC Fan Drive

- 10,000 hour fan motor life
- IP68 rated fan motor
- Optional temperature switch

## MARKETS SERVED

- Bulk Feed
- Crude oil transport
- Vacuum trucks
- Food & chemical transports
- Agriculture equipment
- LP Gas transport
- Creep Drive Systems

## PERFORMANCE DATA



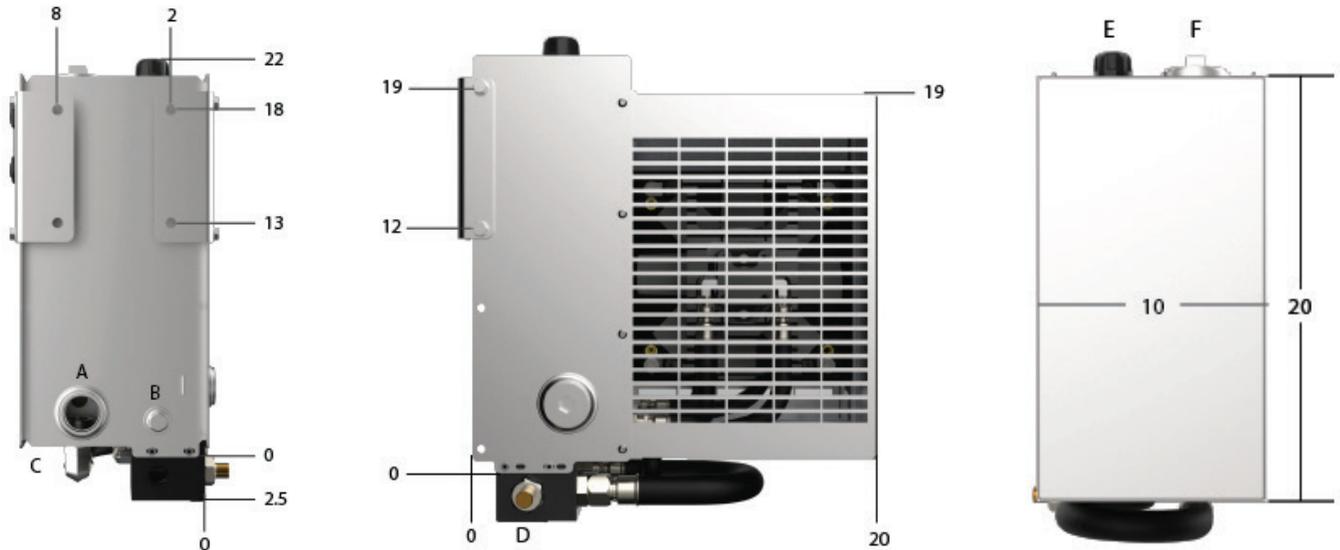
Patent: US 10, 626, 897 B1

# GLOBAL STANDARD COOLING SYSTEMS (HCU SERIES)

## SPECIFICATIONS

Cooler	Bar and Plate Brazed Aluminum	System By-Pass	28 psi
Shroud	Stainless Steel	Filter By-Pass	25 psi
Tank	Low Carbon Steel	Cooler Working Temperature	250 F
Mounting Brackets	High Steel Low Alloy	Maximum System Pressure	3,000 psi
Maximum Flow Rate	35 gpm	Total Volume	4.4 gal
Filter	10 micron (200 micron option)	Shipping Weight (Dry)	Approx. 105 lbs.

## COOLER DIMENSIONS HCU



Dimensions are in inches

A	SUCTION PORT: SAE-24 1-7/8"-12 THD
B	TEMP SENSOR PORT: SAE-8 3/4"-16 THD
C	FILTER RETURN PORT: SAE-16 1-5/16"-12 THD

D	RELIEF VALVE
E	BREATHER
F	10 MICRON FILTER

## ORDERING INFORMATION

SERIES CODE:

HCU35

MOTOR OPTION:

- 1 = 12 Volt Brushless fan drive
- 2 = 24 Volt Brushless fan drive
- 3 = Hydraulic fan drive
- 4 = 12VDC fan drive
- 5 = 24VDC fan drive

MOTOR OPTIONS:

- 1 = 12/24VDC brushless controller and wiring harness
- 2 = Hydraulic speed control manifold
- 3 = 12/24VDC temperature switch
- X = No operation options

FEATURE OPTIONS:

- F2 = 200 Micron Filter

**ORDER EXAMPLE:** HCU35 - with 12 VDC Brushless fan drive with controller and wiring harness **HCU35-1-1**



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## AKG – A STRONG, GLOBALLY INTEGRATED, GROUP OF COMPANIES

AKG is a leading supplier of high performance coolers and heat exchangers. We also provide a customized system solutions, which comply with the highest quality standards.

On a world-wide scale, 2,800 employees work at 12 manufacturing facilities located in Germany, France, United Kingdom, Latvia, the U.S.A., China and India. Together with many new oversea sales companies they are on duty around the clock.

AKG's longstanding partnership with global OEM customers from 22 markets supports the mobile and industrial pre-engineered solutions. AKG products are found globally in a variety of markets including construction machinery, compressed-air systems, agricultural and forestry machines, vehicle construction and many more.

AKG operates one of the world's most extensive research, development, measurement and validation centers for cooling solutions and customized applications.

For 100 years AKG has been a symbol of innovation, engineering excellence and manufacturing competence. This makes a winning combination that raises the bar for our competition and keeps us pushing forward.

Aluminum Coolers – Made by AKG  
DIN EN ISO 9001 : 2000

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