

Bulletin: 44-23

TO: All Greenheck Canada Representatives  
FROM: Jay Haferbecker, CAPS Product Manager  
DATE: November 29, 2023  
SUBJECT: CAPS® 4.43 Announcement



**CAPS® 4.43 will be released Monday, December 4 at 3:00 p.m. CST.**

The next time you start CAPS, you will be prompted for the update. Highlights are listed below followed by a link to the full list of CAPS 4.43 changes and videos by business unit.

## HIGHLIGHTS

### Time-Saving Selections

- ABB variable frequency drives (VFD) can be selected on many popular fan models. This makes selecting, configuring, ordering, and installing VFDs much faster with fewer errors
- New hooded pipe portal: a complete line of pipe portals is now available to save time and coordination with other manufacturers
- HVLS model DM can now be selected and configured using size and performance-based selections
- Expanded the user interface (fast data entry, multi-line editing, global editing) to include all round, AMD/AMS, and face & bypass dampers

### New or Redesigned Products

- New SP sizes with integrated lights/humidity sensor and two-speed capable selections
- Reintroduced the concrete block fan, model CBF-205
- AX Upblast Series 200 selections now available for roof upblast configuration
- USF Gen 2 continuation
  - Expanded to include direct sizes 27 through 40
  - Direct drive through size 24 now have High Wind with NOA
- Expanded the residential energy recovery offering with a new model and multiple configurations

### Availability Updates

- Improved standard lead time on many models, reference [Lead time bulletin](#)
- Expanded Quick Build program on models SQ (QB5), KSQ (QB15), SP-LP sizes (Next-Day), and crossover hoods (QB5)
- Moved the following products from Extended to Standard lead times: AER with fabricated steel propeller and BAER
- Expanded damper actuator offering (see damper section for details)

### Efficiency/Code Updates

- Added ability to set "Efficiency Code Required" for fans in the Job Level defaults
- Added "Comply with Minimum Efficiency Standard" question for ceiling exhaust fans
- New selections of non-tempered MSX units shipping to California to comply with updated codes (CA Title 20)

[Click here](#) for the full list of changes by business unit.

Need assistance? Contact CAPS customer support at (715)355-6523, email [caps@greenheck.com](mailto:caps@greenheck.com), or contact the respective business unit teams with specific product-related questions.

## Full list of changes:

### General (all products)

- Discount request changes [Bulletin 40-23](#)
- Added ability to set “Efficiency Code Required” for fans in the Job Level defaults under Preferences for new fan selections (Title 24 California, 2015 Washington State Energy Code, and ANSI/ASHRAE/IES Standard 90.1) – no logic changes beyond the job default
- CAPS user experience improvements [Click here](#)

### United States Manufactured Products

- **Axial Fans** - [video](#)
  - o BAER enhancements
    - Expanded performance up to 54,000 cfm and up to 3.3 in. wg
    - AMCA Air, Sound, and FEI now available on all sizes and configurations
    - List price adjustments
    - Short wall housing is available on all sizes
    - Propeller guard accessory added to sizes 24 through 36
    - Lead times updated from extended to standard
  - o AER enhancements
    - Removed AER/S2 cross-model selection to speed up AER selection time
    - AER with fabricated steel propeller updated from extended to standard
  - o Stocked upblast models RBUMO and RBU now available in the CAPS stock product tree
  - o Explosion-proof actuated dampers updated to ship loose only
  - o 24VDC actuated dampers updated to ship loose only
  - o Wall collar kits are no longer available on AER/BAER
  - o ABB VFD option available on model AER, up to 15 hp, pre-programmed
  - o Updated axial product simplification plan (see video)
  - o Started motorized damper lifter obsolescence on RDU, RBU, RBUMO [Bulletin 38-23](#)
- **Ceiling Fans** - [video](#)
  - o Added integrated humidity selections: SP-LP0511H and SP-LP0511HL (lighted)
  - o Added two-speed capable selections: SP-LP0810W and SP-LP0510WL (lighted)
  - o SP-LP selections are available on Next-Day Quick Build
  - o Reintroduced the CBF-205 (concrete block fan)
  - o Reintroduced the aluminum grill option
  - o Obsoleted the aluminum wheel on SP-Bs
  - o Obsoleted non-115 volt selections on SP-B110 and SP/CSP-A510
  - o Expanded residential energy recovery with a new ASSURE-140 (standard and mirrored)
  - o SP-AP and SP-LP selections can now have ceiling radiation damper (CRD)
  - o Added mandatory “Comply with Minimum Efficiency Standard” question
- **Centrifugal Fans** - [video](#)
  - o USF redesign (Gen 2) continued
    - Sizes 27 through 40, direct drive arrangement 4 and 8, backward inclined (B6) and airfoil (A2) wheels
    - Control options
      - ABB VFD option up to 30 hp
      - 3-phase Vari-Green® up to 10 hp
    - High Wind w/ NOA
      - Sizes 4 through 24, direct drive, wheels A2, B6, B7, steel wheels
      - Various mountings

- Obsolete model OPA (alternates: MOA or HPA)
- **Commercial Inline and Rooftop Fans** - [video](#)
  - Lead Time updates
    - Added Quick Build program for model SQ mixed flow (QB5 Best)
    - Added Quick Build program for model KSQ (QB15 Best)
  - Start obsolescence of model SAF for August 2024 (replaced by KSQ)
  - KSQ enhancements
    - Added performance baffle to achieve pressures up to 3.75 in. wg
    - Added 1/15 hp Vari-Green® option
    - Motor starters available
  - ABB VFD option (ACH180) available on SQ mixed flow
    - Pre-programmed
    - Up to 15 hp
- **Dampers** - [video](#)
  - Enhanced user interface: fast data entry, multi-line editing, global editing of grid entries, conflict resolution
    - Round Life Safety (FSDR/SMDR)
    - Round Control (VCDR/VCDRM)
    - Round Backdraft (WDR)
    - AMD/AMS and Face & Bypass dampers
  - Life safety damper models FSD and SMD now have a Siemens GXVD actuator option
  - Life safety and commercial control damper models FSD, SMD, and CVD now have a Siemens GJD226.1 actuator option
  - Heavy-duty damper models now have a TRIAC® actuator available (high torque spring return lower cost alternative)
  - Damper models FSD and SMD can have compact actuator with RRL/OCI, TOR closure device
  - Sleeve and transition CAPS accordion for FSD, SMD, DFD, FD models defaults to the open position now, making selections faster
  - For models HCD-120, 130, 135, HCDR-050, maximized actuator selections and availability
  - Discontinued models: FBH-23, 33, 43; FBV-33, 43; AMD-23-TD, 33-TD, 42-TD, 42V-TD
  - MBD-15 list price decrease
- **Dedicated Outdoor Air Systems (DOAS)** - [video](#)
  - Exhaust/return damper updates
  - RV-10 powered exhaust fan turndown to 500 cfm
  - Semco aluminum energy recovery wheel performance updates
  - ISMRE2 unit efficiency
- **Energy Recovery Ventilators (ERV)** - [video](#)
  - Obsolete CO<sub>2</sub> sensor and Airflow monitoring on terminal strip units. Now available on microprocessor selections only
- **HVLS Overhead Fans** - [video](#)
  - Model DM is now configurable for performance and size selections (was previously only in stock tree). Simply enter your dimensions for your space and CAPS will return a ranked list of selections including the fan size and quantity.
- **Kitchen Ventilation Systems (KVS)** - [video](#)
  - List price adjustments [Bulletin 41-23](#)
  - UDS (utility distribution system) enhancements
    - Updated default breaker size to 100A
    - Add GFCI breakers
  - Crossover hoods
    - Enable zero clearance Top

- Enable Quick Builds up to 5-Day
  - Adjusted minimum allowable ceiling enclosure height
  - Updated hood hanging weight calculations to more accurate representation
  - Fire Ready hoods, enabled wall cap selection when selected as top discharge
- **Laboratory and Fume Exhaust Fans**
  - VFD lower cost option (added ABB ACH180)
    - Up to 15 hp
    - 230 or 380/460 volt
- **Louvers**
  - No changes
- **Make-up Air (MUA)** - [video](#)
  - Start obsolescence of the PDX cooling on model DG. Added warning pop-up. No new selections starting in April 2024 (CAPS 4.44) and orders in August 2024 (CAPS 4.45)
  - New electrical connection drawings for housing sizes (H35, H38, H42) on models DGX and MSX and housing H50 on model TSU
  - New selections of non-tempered MSX units for California need to comply with updated codes (CA Title 20). This will apply to units with a BHP > 1 and an FEI < 1
  - Updated UL Listing from UL 1995 to UL 60335-2-40 for models IGX/MSX
- **Power Roof Ventilators and Roof Curbs (PRV)** - [video](#)
  - Obsoleted the High Temperature (425°F) option on the CUE-100HP-VG. 400°F is still available with UL 705 Grease listing
  - Pipe Portal Hood now has three styles of pipe penetrations (boot style, hood style, hood/boot combo)
  - ABB VFD option on models CUE and G, up to 15 hp
- **Tubular Inline Fans** - [video](#)
  - AX Upblast 200 Series now available for roof upblast configuration
    - Sizes include 80, 90, 103, 113, 123, 140, 160
    - Available with UL Smoke and Spark B
  - AX 200 Series is available with Spark B construction and/or EXP motor enclosure
  - Consolidated UL Smoke control/High Temp options for models AX 200, AX 300, TAUB, TBI-FS
  - Model TBI-FS, you can now pick the motor position
  - VFD lower cost option (added ABB ACH180)
    - Up to 15 hp
    - 230 or 380/460 volt
    - Available on models AX, QEI, QEID, TDI, TBI-CA, TBI-FS, TAUB, TAUD, VAD, VAB

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