



OPTIVIEW RETROFIT GRAPHIC CONTROL PANEL OFFER

PRICING AND ORDERING

Supersedes: 50.40-PO37 (1199)

Form 50.40-PO37 (900)

INTRODUCTION

This document includes the information you will need to price and order retrofit OptiView panels. The OptiView panel is the retrofit version of the Graphic Control Center which was introduced in 1999 on production chillers.

APPLICATION AND PRICING MATRIX

Tables 1, 2, 3 and 4 are designed to assist you in performing three functions related to the OptiView retrofit kits:

- Identify which chiller models and starter types are currently covered by retrofit kits.
- Provide the current Master List Price for the retrofit kits.
- Correctly identify the specific retrofit kit part number for your chiller model and starter type.

PANEL PRICING

The OptiView panel qualifies for SQ pricing **if SQ pricing is requested at the time the order is placed!** To determine your current SQ multiplier consult your manager, or within the U.S., reference the Service Marketing intranet web site. On the intranet go to: York Central / Engineered Systems / Global Service / Pricing Box (in reference section).

ORDERING INSTRUCTIONS

U.S. OFFICES – All orders from U.S. service offices **MUST** be faxed directly to the Parts Distribution Center office in York, PA. Use the following fax and phone numbers:

Fax Orders: 717-771-7294
 Phone Inquiries: 717-771-7292

INTERNATIONAL OFFICES – All international orders should be placed through the standard Parts Distribution Center order correspondent located in the Baltimore, MD office.

WHAT IS INCLUDED IN AN OPTIVIEW RETROFIT KIT

- English version OptiView control panel in a NEMA 1 Enclosure (no other enclosure types are currently available as a standard), good for 50 and 60 Hz applications
- Wiring harnesses, cables, and special electrical connectors
- All required pressure transducers
- All required temperature sensors
- Mounting hardware and other assorted materials
- Wiring diagrams and Retrofit Instructions

WHAT IS NOT INCLUDED IN AN OPTIVIEW RETROFIT KIT

- Shipping cost which varies depending on location and desired shipping type. Check with the PDC for options and estimated cost.
- Miscellaneous common wiring, piping, and hardware required to complete the installation. (Estimated cost of \$150 - \$250)
- Standard operation and maintenance manuals and service instructions.
- At least two copies of the appropriate Operating and Maintenance manuals should be left on the job site. Manuals can be ordered through the standard literature distribution system. See the following table for the correct manual:

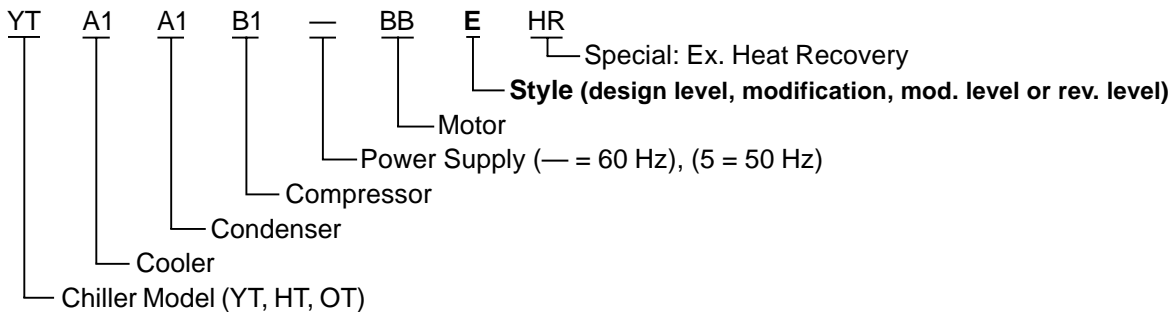
CHILLER MODEL	FORM NO.
YT / OT / HT	160.55-O1
YK	160.54-O1
YS	160.80-O1

TABLE 1 – OPTIVIEW PANEL APPLICATION AND PRICING MATRIX
 YT / OT / HT – LOW PRESSURE – DUAL SHELL – CENTRIFUGAL CHILLERS

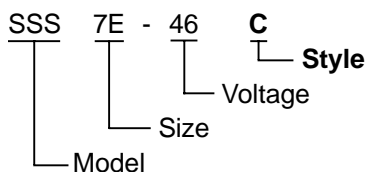
CHILLER MODEL & STYLE (DUAL SHELL ONLY!)	STARTER TYPE	REFRIGERANT	OPTIVIEW KIT NUMBER	MASTER LIST PRICE
HT All Styles	Air-Cooled Solid State Starter Style C	11 or 123	375-37826-101	\$12,300
	Air-Cooled Solid State Starter Style A or B	11 or 123	375-37826-102	
	Electro-Mechanical Starter - Low Voltage	11 or 123	375-37826-105	
	Electro-Mechanical Starter - High Voltage	11 or 123	375-37826-106	
OT All Styles or YT All Styles	Air-Cooled Solid State Starter Style C	11 or 123	375-37826-103	
	Air-Cooled Solid State Starter Style A or B	11 or 123	375-37826-104	
	Liquid-Cooled Solid State Starter Style A (See Note 3!)	11 or 123	375-37826-111	
	Liquid-Cooled VSD (Not Turbo-Modulator)	11 or 123	375-37826-112	
OT All Styles or YT Style A thru D	Electro-Mechanical Starter - High or Low Voltage	11 or 123	375-37826-107	
YT Style E and Later	Electro-Mechanical Starter - High or Low Voltage	11 or 123	375-37826-110	

Application Notes:

- The Chiller Style (also known as design level, modification, mod. level, or rev. level) can be determined from the chiller nameplate as described in the diagram below:



- The Solid State Starter Style (also known as design level, modification level, or mod. level) can be determined from the starter nameplate as described in the diagram below:



- When installing a retrofit liquid cooled SSS at the same time as an OptiView panel, the following two additional parts are required to complete the installation:

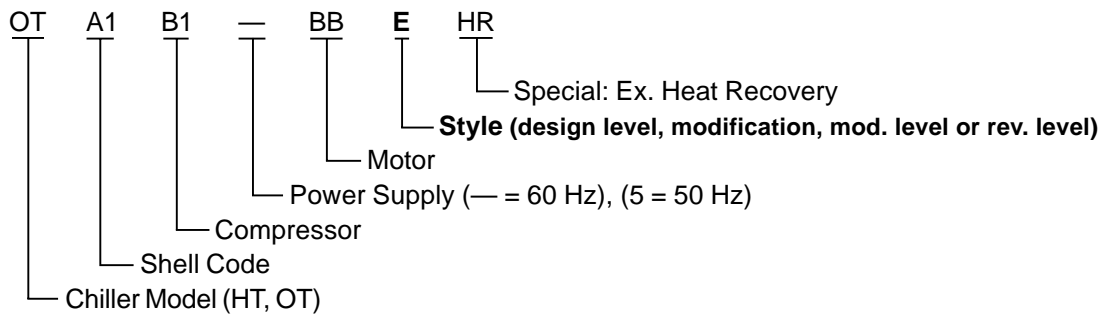
a) ribbon cable pn: 031-01799-000 and b) wiring harness pn: 571-01110-001

TABLE 2 – OPTIVIEW PANEL APPLICATION AND PRICING MATRIX
OT – LOW PRESSURE – MONO SHELL – CENTRIFUGAL CHILLERS

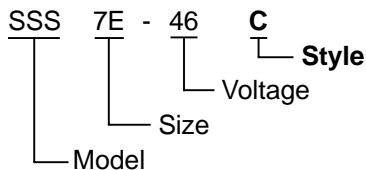
CHILLER MODEL & STYLE	STARTER TYPE	REFRIGERANT	OPTIVIEW KIT NUMBER	MASTER LIST PRICE
HT/OT All Styles	Air-Cooled Solid State Starter Style C	11 or 123	375-37826-115	\$12,300
	Air-Cooled Solid State Starter Style A or B	11 or 123	375-37826-114	
HT/OT All Styles	Electro-Mechanical Starter - High or Low Voltage	11 or 123	375-37826-113	

Application Notes:

- The Chiller Style (also known as design level, modification, mod. level, or rev. level) can be determined from the chiller nameplate as described in the diagram below:



- The Solid State Starter Style (also known as design level, modification level, or mod. level) can be determined from the starter nameplate as described in the diagram below:



- When installing a retrofit liquid cooled SSS at the same time as an OptiView panel, the following two additional parts are required to complete the installation:
 - ribbon cable pn: 031-01799-000 and
 - wiring harness pn: 571-01110-001

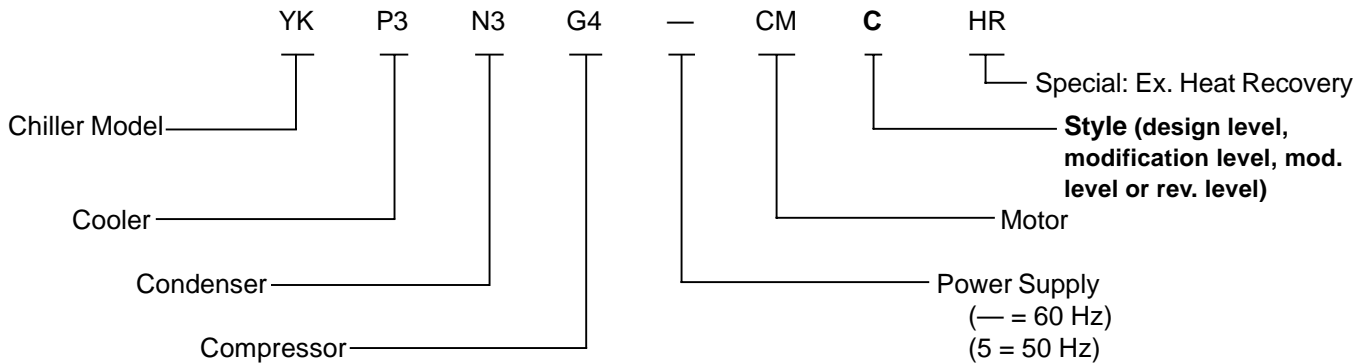
TABLE 3 – OPTIVIEW PANEL APPLICATION AND PRICING MATRIX
YK – HIGH PRESSURE – DUAL SHELL – CENTRIFUGAL CHILLERS

CHILLER MODEL & STYLE (DUAL SHELL ONLY!)	STARTER TYPE	REFRIGERANT	OPTIVIEW KIT NUMBER	VARIABLE ORIFICE ACTUATOR MAKE	MASTER LIST PRICE
YK Style A - C	Electro-Mechanical Starter - High or Low Voltage	22 or 134a	375-38121-101	Not Applicable	\$10,850
	Liquid-Cooled Solid State Starter Style A	22 or 134a	375-38121-104		
	Liquid-Cooled VSD (Not Turbo-Modulator)	22 or 134a	375-38121-107		
YK Style D	Electro-Mechanical Starter - High or Low Voltage	22 or 134a	375-38121-102	Barber Coleman	
		22 or 134a	375-38121-103	Belimo	
	Liquid-Cooled Solid State Starter Style A	22 or 134a	375-38121-105	Barber Coleman	
		22 or 134a	375-38121-106	Belimo	
	Liquid-Cooled VSD (Not Turbo-Modulator)	22 or 134a	375-38121-108	Barber Coleman	
		22 or 134a	375-38121-109	Belimo	

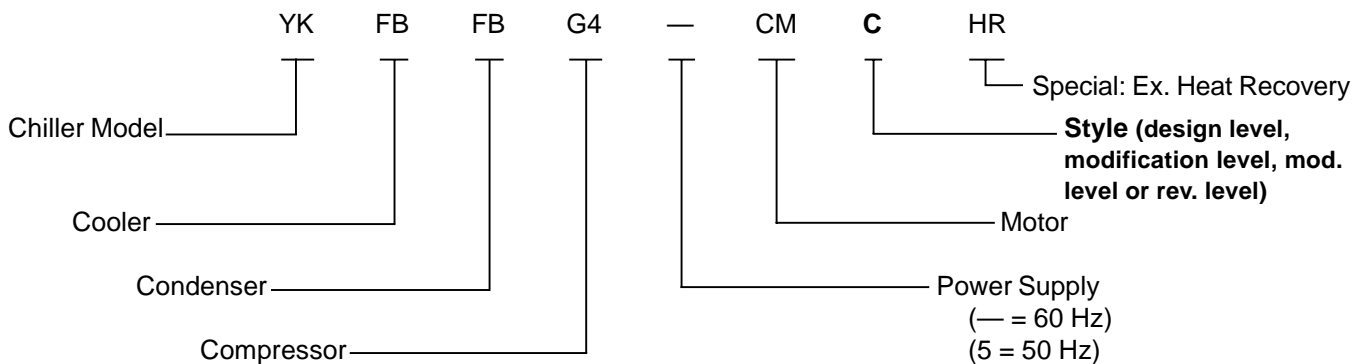
Application Notes:

- The Chiller Style (also known as design level, modification level, mod. level, or rev. level) can be determined from the chiller nameplate as described in the diagram below:

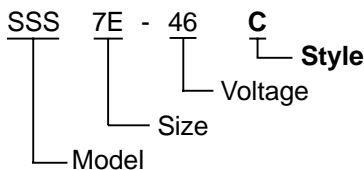
(R-22 UNITS)



(R-134a UNITS)



- The Solid State Starter Style (also known as design level, modification level, or mod. level) can be determined from the starter nameplate as described in the diagram below:



Note:

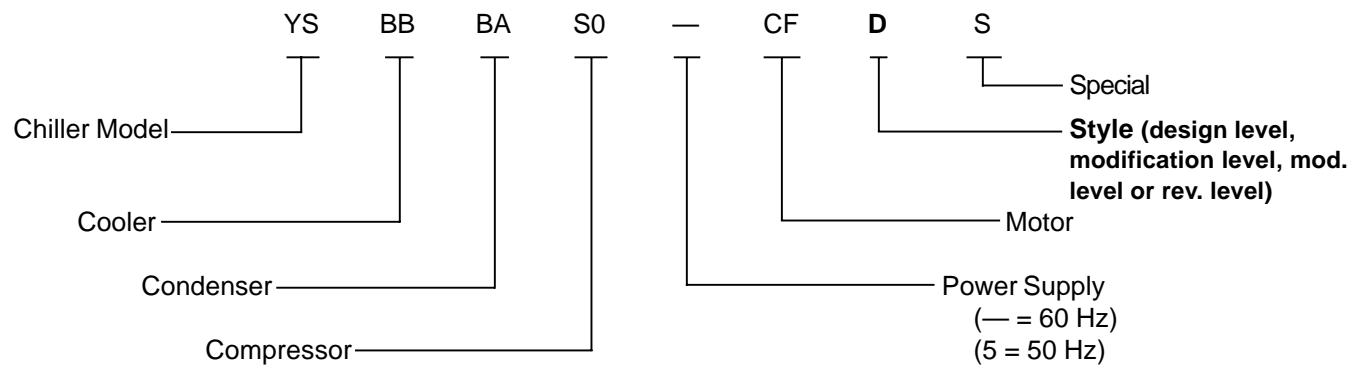
For YK H.P. Mono Shell applications refer to M letter M-353-00.

**TABLE 4 – OPTIVIEW PANEL APPLICATION AND PRICING MATRIX
YS – SCREW CHILLERS**

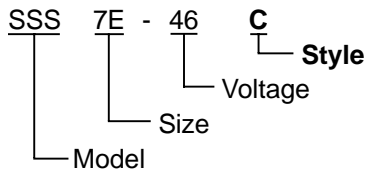
CHILLER MODEL & STYLE	STARTER TYPE	REFRIGERANT	KIT PART NUMBER	MASTER LIST PRICE
YS STYLE A - C	Electro-Mechanical Starter - High or Low Voltage	22 or 134a	375-38308-101	\$9,960
	Liquid-Cooled Solid State Starter Style A		375-38308-103	
YS STYLE D	Electro-Mechanical Starter - High or Low Voltage		375-38308-102	
	Liquid-Cooled Solid State Starter Style A		375-38308-104	

Application Notes:

- The Chiller Style (also known as design level, modification level, mod. level, or rev. level) can be determined from the chiller nameplate as described in the diagram below:



- The Solid State Starter Style (also known as design level, modification level, or mod. level) can be determined from the starter nameplate as described in the diagram below:



LABOR ESTIMATES

The estimated labor and tasks required to perform an OptiView panel retrofit are itemized in Tables 5, 6, and 7. These estimates assume that some tasks can be done concurrently with others. For instance, on low pressure chillers, raising the vessel to atmospheric pressure would take longer than two hours, but the estimate assumes that it is done at the same time that other retrofit work is being performed. If the retrofit can be scheduled with other work requiring removal of the charge or equalization, like a compressor inspection, the labor savings can be even greater.

Since to date we have very limited retrofit experience with these new kits and instructions, it is suggested that a generous labor allowance be used on the first few jobs you quote. After the technicians have gained some experience, future jobs can be bid with greater certainty and probably with fewer labor hours. Note that no travel time is included in these estimates and they assume easy access.

**TABLE 6 – YK / YS HIGH PRESSURE CHILLERS
ESTIMATED LABOR AND TASK LIST**

Task	Labor Hours
Replace evaporator pressure transducer	1
Remove Existing Control Panel	2
Optional – Replace transducer and sensor cables (Only required on largest vessel sizes if relocating panel for best visibility.)	2
Mount OptiView Panel (may require slight modification to mounting brackets if relocating panel for best visibility on the largest vessel sizes)	5
Complete Control Wiring	6
Complete Power Wiring	4
Program, Start-Up and Commission	5
Housekeeping and Material Acquisition	4
Travel Time	0
Total Hours	29

**TABLE 5 – YT / OT / HT LOW PRESSURE CHILLERS
(DUAL SHELL APPLICATION)
ESTIMATED LABOR AND TASK LIST**

Task	Labor Hours
Obtain and transport thermal refrigerant pressurization equipment (if not available on site)	3
Raise and maintain atmospheric pressure on refrigerant vessels	2
Replace all five pressure transducers	3
Replace transducer cables	2
Remove Existing Control Panel	2
Mount OptiView Panel	4
Complete Control Wiring	6
Complete Power Wiring	3
Program, Start-Up and Commission	5
Housekeeping and Material Acquisition	8
Travel Time	0
Total Hours	38

**TABLE 7 – HT / OT LOW PRESSURE CHILLERS
(MONO SHELL APPLICATION)
ESTIMATED LABOR AND TASK LIST**

Task	Labor Hours
Obtain and transport thermal refrigerant pressurization equipment (if not available on site)	3
Raise and maintain atmospheric pressure on refrigerant vessels	2
Replace all five pressure transducers	3
Replace transducer cables	2
Remove Existing Control Panel	2
Mount OptiView Panel	4
Complete Control Wiring	6
Complete Power Wiring	3
Program, Start-Up and Commission	5
Housekeeping and Material Acquisition	8
Travel Time	0
Total Hours	38

NOTES

