

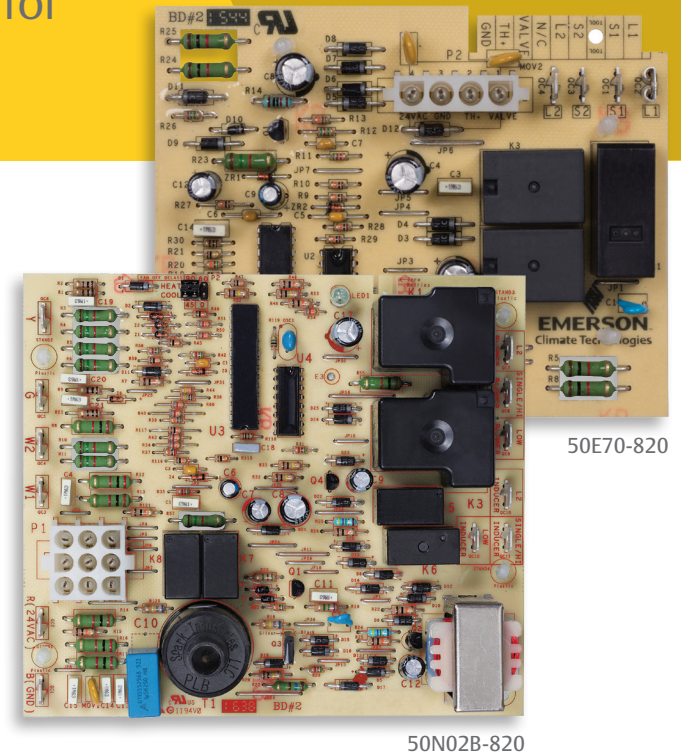
Trane Commercial Package Units HSI/DSI Controls

50E70-820 & 50N02B-820

D
OEM Direct

Fast and Easy OEM Direct Replacement for
Single and Two-Stage Applications

-  **Source with other HVAC Controls**
Save time by finding these boards at your local HVAC distributor
-  **Easy to Install**
50N02A and B adapter kit sold separately to save you money on parts you may not need
50E70 kit includes everything needed for an easy and fast replacement
-  **OEM Direct Replacement Control**
Fast drop-in OEM mounting on Trane Packaged Units
-  **Complete Cross Reference**
Extensive and up-to-date cross reference by OEM model number
-  **Support**
Customer and technical support is available seven days a week at 888-725-9797



1-Year Limited Warranty

DID YOU KNOW?

Industry first OEM direct replacement boards for Trane Packaged Units



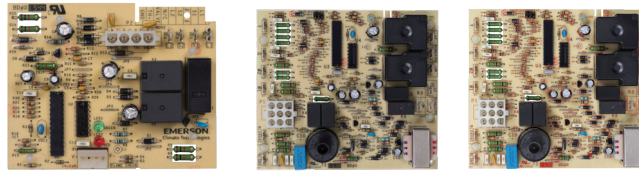
WHITE-RODGERS™


EMERSON™

Direct Drop-in Replacements

Trane Commercial Packaged Unit Controls

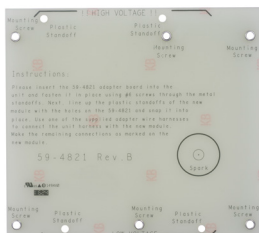
Specifications



	Non-integrated HSI 50E70-820	Integrated Two-Stage DSI 50N02A-820	Integrated Two-Stage DSI 50N02B-820
Specifications			
Operating Temperature	-40° to 158°F	-40° to 175°F	-40° to 175°F
Humidity Range	10% to 95% RH	10% to 95% RH	10% to 95% RH
Mounting	Stand-Offs / Adapter Board	Stand-Offs	Stand-Offs
Electrical Ratings @ 77°F (25°C)			
Input Voltage	24 VAC, 50/60 Hz	24 VAC, 50/60 Hz	24 VAC, 50/60 Hz
Maximum Input Current @ 25 VAC		350 mA + MV	350 mA + MV
Flame Current Requirements			
Minimum current to insure flame detection	1 µA DC*	1.2 µA DC*	1.2 µA DC*
Nominal current		4.5 µA DC*	4.5 µA DC*
Maximum current for non-detection	0.1 µA DC*		
Maximum allowable leakage resistance	100 M ohms		
Timing Spec (@ 60 Hz) maximum			
Flame establishing time	0.8 sec	0.8 sec	0.8 sec
Flame failure response time	2.0 sec	2.0 sec	2.0 sec
Technical Help			
Pre-Purge	0	20	20
Ignitor Warm-Up	45		
Retries		2	2
Heat ON delay (Low Heat)		45	45
Heat OFF delay		60/90	60/90
Cool ON delay		0	0
Cool OFF delay		0/80	0/45
Automatic Reset Time	60 min	60 min	60 min
Post Purge	0	5	5

Cross Reference

Trane Commercial Packaged Unit Controls	Suggested Direct Replacement
21D02-475-01	F50N02-820
21D70-495-01	50E70-820
21D70-495-02	50E70-820
3HS-1	50E70-820
3HS-2 Rev A	50E70-820
3HS-2 Rev D	50E70-820
3SV-2	50E70-820
50E70-820	50E70-820
50N02-495-01	50N02A-820
50N02-495-02	50N02A-820
50N02A-820	50N02A-820
50N02B-820	50N02B-820
CNT01634	50N02A-820
CNT01669	50N02A-820
CNT02216	50N02A-820
CNT02217	50N02A-820
CNT02219	50N02B-820
CNT03456	50N02A-820
CNT03457	50N02A-820
CNT03458	50N02B-820
CNT04912	50N02B-820
CNT05135	50N02B-820
D674713P01	50N02B-820
F50N02-820	F50N02-820
KIT03308	50E70-820
KIT05137	50E70-820
KIT06839	F50N02-820
KIT08282	50E70-820
KIT17852	50E70-820
X13120662010	F50N02-820
X13130449-01	50E70-820
X13130453-01	50E70-820
X13130454-01	50E70-820
X13130454-02	50E70-820
X13650873-01	50N02A-820
X13650874-01	50N02A-820
X13650875-01	50N02B-820



F50N02-820 Furnace Adapter Board
Used with 50N02A or B Controls
Only required for first time board replacements or older kits

The White-Rodgers Mobile App:

- Cross referencing
- Product information
- Product selection



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