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The Most Complete Line of HVAC Replacement Heating Controls

- i3™ touch thermostats
- simplecomfort® thermostats
- single & 3-phase motor protection
- head pressure controls
- rapidstart® motor starters
- furnace controls
- gas ignition controls
- fan blower controls
- defrost controls
- condensate controls
- time delay relays
- ECM controls
- IR/RF controls
- speed controls
- lead-lag controls
- pool & spa controls
- custom oem

This catalog is for certified contractors only

Phone: 315.233.5266
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Application Assistance
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7313 William Barry Blvd.,
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www.icmcontrols.com

LIM195



ICM Controls offers the most complete line of low cost, direct wire-for-wire replacement furnace controls for many popular OEM models. From our HSI and spark ignition gas controls to our popular intermittent and interrupted duty oil primary controls, each unit is designed to operate safely and in accordance with the logic on the original board.

Discover our complete line of patented and award-winning technologies and innovative HVAC/R control solutions by visiting our **website at www.icmcontrols.com**.

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Furnace Control Boards

Wire-For-Wire OEM Replacements!

ICM281



ICM280



ICM282A

- Microprocessor-based
- Designed for 100% gas shutoff in case of ignition failure
- DSI models include 100% lockout safety feature and are compatible with LP or Natural gas
- Diagnostic LEDs to aid in testing/troubleshooting

ICM P/N	Type	Line Voltage	Twinning Compatible	Replaces
ICM280	HSI	98-132 VAC @ 60 Hz	Yes	Goodman: B1809906, B1809908, B1809910, B1809913, B1809913S, UTEC: 1012-933D Texas Instruments: 41F-5 White-Rodgers: 50T35-730, 50T35-743
ICM281	HSI	98-132 VAC @ 60 Hz	Yes	Carrier: CES0110020, CES0110048, CES0110057-00, CES0110057-01, CES0110057-02, HH84AA016
ICM282A	HSI	98-132 VAC @ 60 Hz	Yes	Carrier: HK42FZ004, HK42FZ007, HK42FZ008, HK42FZ009, HK42FZ011, HK42FZ013, HK42FZ016, 325878-751
ICM284	HSI	208 VAC @ 60 Hz	No	York: SI-03101280000
ICM286	HSI	98-132 VAC @ 60 Hz	Yes	Goodman: PCBBF112S, B18099-26S, 0130F00005S
ICM287	HSI	120 VAC @ 60 Hz	No	Goodman: B18099-04
ICM288	HSI	98-132 VAC @ 60 Hz	Yes	Rheem: 62-24084-82
ICM289	HSI	98-132 VAC @ 60 Hz	No	Lennox: Replaces all BCC1, BCC2 and BCC3 circuit boards, including 48K98 and 45K48.
ICM291	DSI	208/230 VAC @ 60 Hz	No	Carrier: LH33WP003/3A
ICM292	DSI	115 VAC @ 60 Hz	No	Rheem: 62-24140-04
ICM2801	HSI	98-132 VAC @ 60 Hz	Yes	York: 7990-319P
ICM2804	DSI	98-132 VAC @ 60 Hz	No	Carrier: CES0110074-00 and CES0110074-01
ICM2805A	DSI	98 to 132 VAC @ 60 Hz	Yes	Nordyne: 624631 (for use with G3, G4, G5, M2 and M3 furnace modules)
ICM2807	HSI	98 to 132 VAC @ 60 Hz	Yes	Carrier: HK42FZ017
ICM2808	HSI	98 to 132 VAC @ 60 Hz	Yes	York: S1-331-0301000 and S1-331-02956000
ICM2809	HSI	98 to 132 VAC @ 60 Hz	No	White Rodgers: 50T55-289-03

ICM283



ICM290A



Gas Ignition

Hot Surface (HSI) & Intermittent Pilot Ignition (IPI) Controls

- For gas-fired furnaces, boilers and other heating applications
- Microprocessor-based
- Monitors timing, trial for ignition, flame sensing and lockout
- Single or dual-rod sensing capabilities
- Works with both Natural and LP gas systems
- 100% safety lockout features
- Diagnostic LED to aid in troubleshooting

ICM P/N	Type	Pre-Purge Time	Trial for Ignition	Ignition Trials to Lockout	Replaces
ICM283	HSI	32 seconds	4 or 7 seconds (switch selectable)	1 or 3 tries (switch selectable)	Honeywell: S8910U-1000 Robertshaw: HS780 White Rodgers: 50E47, 50F47
ICM290A	IPI	N/A	15 or 90 seconds (switch selectable)	1	Honeywell: S8610U3009 (and compatible Camstat, Fenwal, HSC, Penn-Johnson, Robertshaw and White Rodgers models)
ICM295	DSI	0 or 10 seconds (system dependent)	Continuous	N/A	Carrier: LH33WZ510
ICM296	DSI	None	90 seconds	1	Carrier: LH33WZ512A
ICM2901	IPI	None	85 seconds	1	ICM: 294 Johnstone Controls: G770RJA-1 York: 025-27762-700 and comparable ignition controls
ICM2902	IPI	15 seconds	85 seconds	1	ICM: 293 Johnstone Controls: G776 (63K2401, 41K8701, 69J3601) ignition controls Lennox: 30W33 ignition controls Robertshaw: 735L (18G91) or 745 (95H04) ignition controls
ICM2904	IPI	0 seconds	Continuous	N/A	Reznor: 257009
ICM2905	DSI	0 seconds	2 minutes	1	Reznor: 257010

Defrost Controls

ICM350



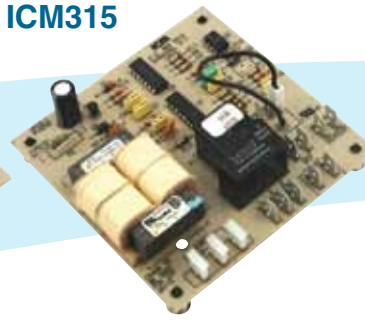
ICM319



ICM342



ICM315



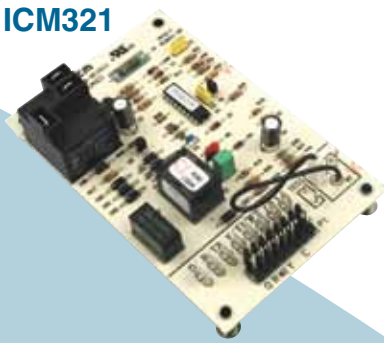
ICM314



ICM P/N	Fixed Defrost Time	Pin Selectable Intervals	Test Pins Reduce Test Time	Anti-Short-cycle	Replaces
ICM300	10 minutes	30/60/90 seconds	256x	N/A	Amana: C64301-1, C64310-1 Arcoaire: 32312-00, 3232140 Artesian: 10321-00 Coleman: 3030A374 Essex: 621-1 to 621-11, 621-310 Goodman: B12260-06; Heil Quaker: HQ1052757 Honeywell: ST74A1004, ST74A1020 ST74A1038 ICP: 1052757 Intertherm: 6208800 Lennox: 33G9501 Rheem: 47-21776-01 Robertshaw/Uni-Line: TD-10, DT2-1000 Synder General: 1395-329 Steveco: 90-621 Therm-O-Disc: 26E-10 Weatherking (Addison): 840-4-5548 White-Rodgers: 90-621
ICM301	10 minutes	30/60/90 minutes	256x	N/A	Goetti: 305007 ICM: DFOSP24A2 Rheem: 47-21776-06
ICM302	10 minutes	30/60/90 minutes	256x	5 minutes	ICM: DFORB-AB1004 Nordyne: 621301A, 621579B, 621579C, 917178
ICM303	10 minutes	30/60/90 minutes	N/A	5 minutes	Evcon: 9218-374 ICM: DFORF York: 03101251000, 9218-3741
ICM304	10 minutes	30/60/90 minutes	N/A	5 minutes	ICP: 1069364
ICM307	10 minutes	30/60/90 minutes	256x	3 minutes	ICP: 1093410 Lennox: 86G16 Ranco: DT2
ICM314	12 minutes	30/60/90 minutes	240x	3 minutes	Goodman: PCBDM-133

Defrost Controls

ICM321



ICM304



ICM550



ICM300



ICM316



ICM P/N	Fixed Defrost Time	Pin Selectable Intervals	Test Pins Reduce Test Time	Anti-Short-cycle	Replaces
ICM315	10 minutes	30/45/90 minutes	256X	N/A	Avicon: DFT100 Ranco: E-15
ICM316	10 minutes	50/70/90 minutes	256X	N/A	Trane: 21C142827G01, CNT1152, CNT1642
ICM317	10 minutes	50/70/90 minutes	256X	0 or 3 minutes	N/A
ICM318	10 minutes	30/60/80 minutes	256X	N/A	Goodman: B1226008 ICM: W1001-4
ICM319	10 minutes	30/60/80 minutes	256X	5 minutes	ICM: DFORB24A2I300 Nordyne: 624519A
ICM320	10 minutes	30/50/90 minutes	256X	N/A	Carrier: HK25SZ359/9A, HK32FA006
ICM321	10 minutes	30/50/90 minutes	256X	5 minutes	Carrier: CES0110063-00, CES0110063-01, CES0110063-02, CES0110063-02A, CES0130024-01, 150-83-6A
ICM322	10 minutes	30/50/90 minutes	256X	N/A	Carrier: CES0130024-00
ICM323	10 minutes	30/60/90 minutes	256X	3 minutes	ICP: Defrost boards with heat active (B) reversing valves
ICM350	10 minutes	30, 60, 90, 120 minute intervals	20X	5 minutes	Carrier: HK32EA001, HK32EA003, HK32EA008 and comparable defrost control boards
ICM550	Minimum: 15 minutes Maximum: 23 hours & 45 minutes	15 minutes to 23 hours & 45 minutes	N/A	N/A	Grasslin: 010-0011B Intermatic: DTAV40



ICM550



ICM270



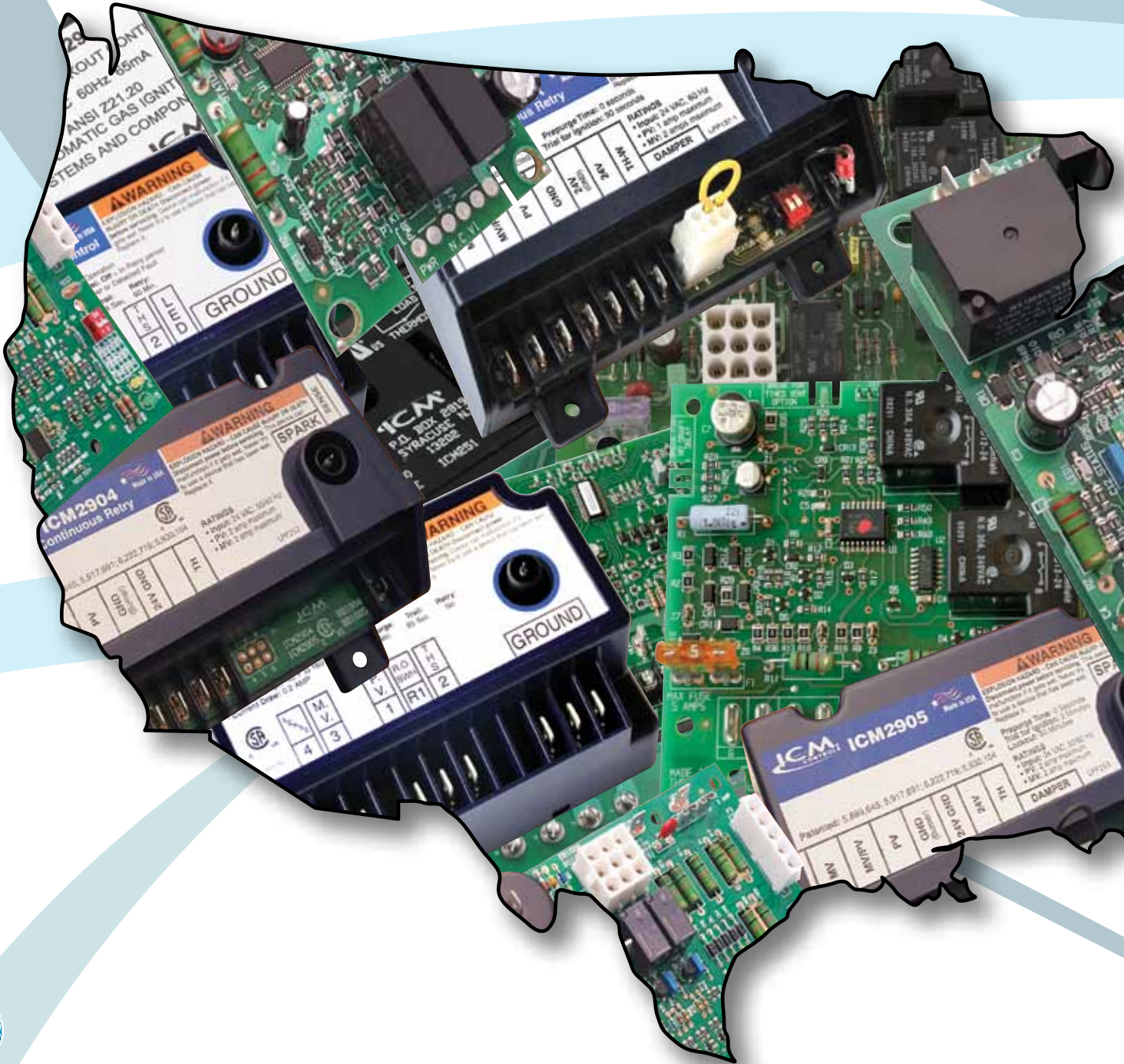
ICM2904



ICM2905



ICM2906



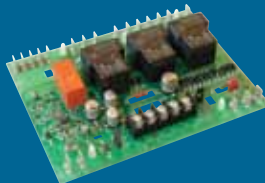
ICM284



ICM287



ICM289



ICM290A



ICM2901



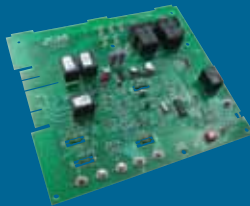
in USA



ICM2907



ICM280



ICM281



ICM282



ICM283



Technology You Can Trust

The Most Satisfied Customers



ICM6700



ICM295



ICM296



ICM1500 Series



ICM6701



in USA

Fan Blower Controls

ICM271



ICM254



ICM274



ICM275



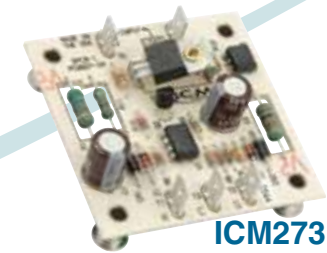
ICM277



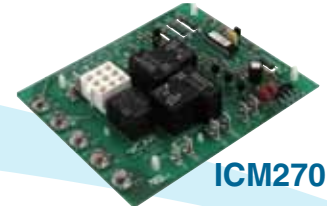
ICM P/N	Time Delay (seconds)	Replaces
ICM253	Adjustable: 12-390	Field Controls: 46144700 Gemline: 1C216 Mars: 32393
ICM251	Blower ON: 1-180 Blower OFF: 12-390	Mars: 32377, 32378, 32379
ICM254	Blower ON: 1-180 Blower OFF: 12-390	Honeywell: S876A1016 Watsco: PSTD-000-005W, PSTD-000-060W
ICM255	ON: 1 OFF: 60	A-1: 5893 Bard: 8201-056 Mars: 32574 Rheem: 42-22515-01, 42-22515-02, 42-22515-03 Synder General/ICP: 1395336
ICM256	ON: 7 OFF: 65	Goodman: PCBFM-103
ICM270	Blower ON: 30 Blower OFF: 90/120/150/180	Evcon: 2702-300 Rheem: 47-22827-01/81/82/83, 47-22828-01/02 Robertshaw: 695-003
ICM271	Heat ON: 75 Heat OFF: 105 Cool OFF: 90	Carrier: 302075-3, CES01100-17, CES01100-18, HH84AA0-10/11/12/13/20, and P771-7002 Robertshaw: 695-100
ICM272	Blower OFF: 60	Carrier: HK61GA00-01/03 TI: 2FD-1
ICM273	Blower OFF: 60	EMI: 240000-969
ICM274	Blower OFF: 60	EMI: 240-1764
ICM275	Heat ON: 60 Heat OFF: 60-240 Cool OFF: 90	Carrier: CES0110019, HH84AA0-01/03/05/09/14/15/21 Robertshaw: 695-101
ICM277	Blower OFF: 7 Blower ON: 65	Goodman: B1370735S, PCBFM131S
ICM278	Heat ON: 60 Heat OFF: 60-200 Cool OFF: 40	Carrier: HH84AA017 and HH84AA018 (replaces both boards)



ICM251



ICM273



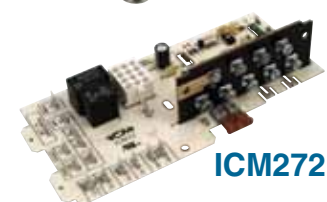
ICM270



ICM253



ICM255



ICM272

Oil Primary Controls

- Controls oil burner, oil valve (if desired) and the ignition transformer in response to a call for heat
- Solid state flame sensing circuit
- Built standard with patented energy transfer technology
- Enclosed safety switch with external reset button
- LED on terminal strip indicates system lockout
- Intermittent ignition models are engineered for longer life with various post-purge time delays available.

ICM1500



INTERMITTENT IGNITION

ICM P/N	Safety Timing	Direct Replacement For
ICM1501	15 seconds	Honeywell: R8184G4066 / G1161 / G1294
ICM1502	30 seconds	Honeywell: R8184G4074 / G1179 / G1302 / G4033
ICM1503	45 seconds	Carlin: 48245 Honeywell: R8184G4009 / G1138 / G1427 / G4025 Tempstar/Heil: 1147017 White-Rodgers: 668-401

Call “**Big Buddy**” toll free at
800.365.5525 ext. 375

for superior Technical Service & Support on all ICM Controls’ products. You can also find complete product specifications, including installation manuals and wiring diagrams, on the web at

www.icmcontrols.com



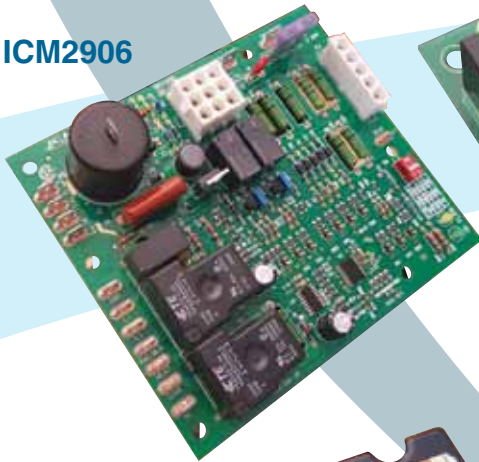
ICM2904



ICM6700



ICM2906



Coming Soon!

2018

**Mark Your
Calendars!**

ICM6701



ICM2905



ICM2907



ICM P/N	Type	Replaced	Target Release Date
ICM2904	Intermittent Pilot Gas Ignition	Reznor: 257009	Available Winter 2018
ICM2905	Intermittent Pilot Gas Ignition	Reznor: 257010	Available Winter 2018
ICM2906	Direct Spark Ignition Board	Reznor: 195573	Available Winter 2018
ICM2907	Direct Spark Ignition Board	Reznor: 195265	Available Winter 2018
ICM6700	Direct Spark Ignition Board	Suburban: 521099 Fenwal: 06-236879-002	Available Winter 2018
ICM6701	Direct Spark Ignition Board	Suburban: 520814 Fenwal: 35-525900-113	Available Winter 2018

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Cross Reference

DEFROST CONTROLS

Amana: C64301-1, C64310-1	ICM300
Arcoaire: 32312-00, 3232140	ICM300
Artesian: 10321-00	ICM300
Avion: DFT100	ICM315
Carrier: CES0110063-00, -01, -02, -02A	ICM321
Carrier: CES0130024-00	ICM322
Carrier: HK25SZ359/9A	ICM320
Carrier: HK32FA006	ICM320
Carrier: HK32EA001, EA003, EA008	ICM350
Coleman: 3030A374	ICM300
Essex: 621-1 to 621-10, 621-110, 621-111, 621-310-110	ICM300
Evcon: 9218-374	ICM303
Fast: 1093410	ICM307
Goettl: 305007	ICM301
Goettl: 305023	ICM329
Goettl: 305057	ICM324
Goodman: B12260-06	ICM300
Goodman: B1226008	ICM318
Goodman: PCBDM 133 (Direct replacement)	ICM314
Grasslin: 010-0011B	ICM550
Heil Quaker: HQ1052757	ICM300
Honeywell: ST74A1004/20/38	ICM300
ICM: AG1004	ICM329
ICM: AJ1008	ICM324
ICM: DFORB24A2I300	ICM319
ICM: DFORB-AB1004	ICM302
ICM: DFORF	ICM303
ICM: DFOSP24A2	ICM301
ICM: W1001-4	ICM318
ICP: 1052757	ICM300
ICP: 1069364	ICM304
ICP: Heat active (B) RV	ICM323
Intermatic: DTAV40	ICM550
Intertherm: 6208800	ICM300
Lennox: 33G9501	ICM300
Lennox: 86G16	ICM307
MARS: 32572	ICM300
Nordyne: 621301A	ICM302
Nordyne: 621579B, 621579C	ICM302
Nordyne: 917178	ICM302
Nordyne: 624519A	ICM319
Ranco: DT2	ICM307
Ranco: E-15	ICM315
Rheem: 47-21776-01	ICM300
Rheem: 47-21776-06	ICM301
Robertshaw/Uni-Line: TD-10, DT2-1000	ICM300
Snyder General: 1395-329	ICM300
Steveco: 90-621	ICM300
Therm-O-Disc: 26E-10	ICM300
Trane: 21C142827G01	ICM316
Trane: CNT1152, CNT1642	ICM316
Weatherking (Addison): 840-4-5548	ICM300
White-Rodgers: 90-621	ICM300
York: 03101251000	ICM303
York: 9218-3741	ICM303

FAN BLOWER CONTROLS

A-1: 5893	ICM255
Bard: 8201-056	ICM255
Carrier: 302075-3, CES0110017, CES0110018,	ICM271
Carrier: CES0110019	ICM275
Carrier: HH84AA001/003/005/009/014/015/021	ICM275
Carrier: HH84AA010/011/012/013/020, P771-7002	ICM271
Carrier: HH84AA017, HH84AA018	ICM278
Carrier: HK61GA001/03	ICM272
EMI: 240000-969	ICM273
EMI: 240-1764	ICM274
Evcon: 2702-300	ICM270
Field Controls: 46144700	ICM253
Gemline: 1C216	ICM253
Goodman: B1370735S, PCBFM131S	ICM277
Goodman: PCBFM 103	ICM256
Honeywell: S876A1016	ICM254
MARS: 32377, 32378, 32379	ICM251
MARS: 32393	ICM253
MARS: 32574	ICM255
Rheem: 42-22515-01/02/03	ICM255
Rheem: 47-22827-01	ICM270
Rheem: 47-22827-81/82/83	ICM270
Rheem: 47-22828-01/02	ICM270
Robertshaw: 695-003	ICM270
Robertshaw: 695-100	ICM271
Robertshaw: 695-101	ICM275
Snyder General/ICP: 1395336	ICM255
Texas Instruments: 2FD-1	ICM272
Watsco: PSTD-000-005W, PSTD-000-060W	ICM254

FURNACE CONTROL BOARDS

Carrier: 325878-751	ICM282
Carrier: CES0110057-00/01/02	ICM281
Carrier: CES0110020, CES0110048	ICM281
Carrier: CES0110074-01	ICM2804
Carrier: HK42FZ-004/007/008/009/ 011/013/016	ICM282A
Carrier: HK42FZ017	ICM2807
Carrier: HH84AA016	ICM281
Carrier: LH33WP003/3A	ICM291
Goodman: PCBBF112S, B1809926S	ICM286
Goodman: B18099-04	ICM287
Goodman: B18099-06/08/10/13/13S	ICM280
Lennox: All BCC1, BCC2, BCC3 circuit boards, including 48K98	ICM289
Nordyne: 624631	ICM2805A
Rheem: 62-24140-04	ICM292
Rheem: 62-24084-82	ICM288
Texas Instruments: 41F-5	ICM280
UTEC: 1012-933D	ICM280
White-Rodgers: 50T35-730, 50T35-743	ICM280
White Rodgers: 50T55-289-03	ICM2809
York: 03101280000	ICM284
York: S1-331-03010000, S1-331-02956000	ICM2808
York: 7990-319P	ICM2801

Cross Reference

GAS IGNITION CONTROLS

Carrier: LH33WZ510	ICM295
Carrier: LH33WZ512A	ICM296
Honeywell: S8610U (and compatible Camstat, Fenwal, HSC, Penn-Johnson, Robertshaw and White Rodgers models)	ICM290A
Honeywell: S8910U-1000	ICM283
Johnson Controls: G770RJA-1	ICM2901
Lennox: G776 (63K2401, 41K8701, 69J3601)	ICM2902
Reznor: 257009	ICM2904
Reznor: 257010	ICM2905
Reznor: 195573	ICM2906
Reznor: 195265	ICM2907
Robertshaw: H5780	ICM283
White Rodgers: 50E47, 50F47	ICM283
Suburban: 521099	ICM6700
Fenwal: 06-236879-002	ICM6701
Suburban: 520814	ICM6701
Fenwal: 35-525900-113	ICM6701

OIL BURNER PRIMARY CONTROL

Carlin: 48245	ICM1503
Honeywell:R8184G: 4009, 1138, 1427, 4025	ICM1503
Honeywell:R8184G: 4066, 1161, 1294	ICM1501
Honeywell:R8184G: 4074, 1179, 1302, 4033	ICM1502
White-Rodgers: 668-401	ICM1503

DUTY CYCLE CONTROLS

Carrier: HN67ZA012A	ICM305
SSAC: ESDR, TSDR Series	ICM305
SSAC: ESDR, TSDR Series	ICM306

Download the New ICM Controls Cross Reference Application to your smart phone!

From any Android or iPhone application

1. Do a search for **ICM X REF**.
2. Select the **ICM X REF** icon when it appears.
3. Click the green **INSTALL** button.
4. When **Complete account setup** window appears, click **CONTINUE**.
5. Make a selection and click **CONTINUE** or **SKIP**.
6. **ICM X REF** needs access to... Click **ACCEPT**.
7. It should take about 10 seconds to download and install the application.
8. Click **OPEN**.



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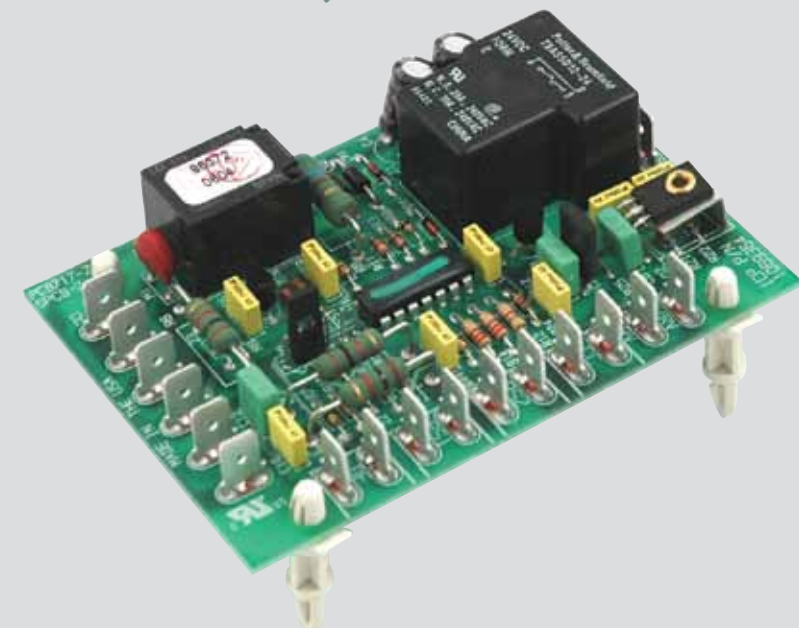
Our continuous improvement program reflects our total commitment to excellence in quality.

Each of our products must pass a strict and rigorous quality assurance process before leaving our world-class manufacturing facility.

ICM Controls has been a leading manufacturer of electronic controls for the HVAC/R industry for more than 33-years, a position achieved through product and process innovation. Serving both the OEM and Aftermarket,

ICM Controls' goal has been to provide its customers with the most technologically advanced products at the greatest value without compromise in quality.

ICM Controls offers better command of the supply chain through true vertical integration. Its products are proudly made in the U.S.A.



The ICM Controls Brand is synonymous with American-Made quality and reliability. For more than 33 years, we've built our reputation on providing customers with highly dependable products and service at globally competitive prices.

Adhering to a true, vertical integration strategy, we continue to re-invest in our infrastructure - and our people – so you, our valued customer, can buy with confidence when you buy ICM.



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