

51401496-100

51401496-100 Dual-Node Fan Assembly

51401496-100 Dual-Node Fan Assembly

PRODUCT SNAPSHOT

BRAND
Honeywell

FAMILY
Honeywell TDC 3000

PART
51401496-100

DOCUMENT STATUS
Controlled engineering copy

APTER POWER

WHATSAPP / PHONE

+86 180 3023 5313

WEBSITE

www.apterpower.com



PRODUCT OVERVIEW

Honeywell 51401496-100 provides cooling of the documented dual-node card-file installation in a documented Honeywell TDC 3000 installation.

System family: TDC 3000

Installation role: Dual-node card-file cooling

Service scope: Fan operation, airflow and cabinet temperature checks

Exact installed identity and host compatibility

RELATED APTER POWER PAGES		
1 Honeywell 51401642-150	2 Honeywell 621-2200RC	3 Honeywell 8C-PAOH51 51454355-175
4 Honeywell 8C-TAIMA1 51307171-175	5 Honeywell 8C-TAOXA1 51307135-175	6 Honeywell 8C-TDILA1 51307141-175
7 Honeywell MC-PAOX03 51309152-175	8 Honeywell MC-TAIH12 51304337-150	9 Honeywell MC-TAOX12 51304335-175

SYSTEM COMPONENTS

DOCUMENTED COMPONENT	ROLE IN SYSTEM
Proximity probe	Matched extension cable
Proximator Sensor	AISI 4140 target

ENGINEERING CONTEXT

The component remains matched to its installed host, interface hardware and engineering configuration. Commissioning restores that architecture and verifies the intended function under controlled conditions.

TECHNICAL DATA

PARAMETER	VALUE
Product type	Dual-node fan assembly
Part number	51401496-100
Honeywell service description	FAN ASSY 2 NODE

PARAMETER	VALUE
System family	TDC 3000
Installation role	Dual-node card-file cooling
Service scope	Fan operation, airflow and cabinet temperature checks

RELATED PRODUCT PAGES

- 1

Honeywell 51401642-150
- 2

Honeywell 621-2200RC
- 3

Honeywell 8C-PAOH51 51454355-175
- 4

Honeywell 8C-TAIMA1 51307171-175
- 5

Honeywell 8C-TAOXA1 51307135-175
- 6

Honeywell 8C-TDILA1 51307141-175
- 7

Honeywell MC-PAOX03 51309152-175
- 8

Honeywell MC-TAIH12 51304337-150
- 9

Honeywell MC-TAOX12 51304335-175

TECHNICAL NOTE

Install 51401496-100 only in its documented Honeywell TDC 3000 position. Preserve the exact interfaces, wiring and configuration, then verify diagnostics and cooling of the documented dual-node card-file installation under controlled conditions.

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

51401496-100 Dual-Node Fan Assembly

Provides cooling of the documented dual-node card-file installation in the approved Honeywell TDC

Installed-system maintenance

Preserves the documented slot, termination, wiring and configuration during replacement.

Controlled commissioning

Restores power and signals in the approved sequence and reviews diagnostics.

Acceptance verification

Confirms the intended channel, network or safety function before release.

PRODUCT PRECAUTIONS

1

Confirm the complete 51401496-100 identity on the hardware and maintenance record.

2

Place the affected Honeywell TDC 3000 process in the approved maintenance state.

3

Record the installed position, connectors, terminals, wiring and configuration before removal.

4

Isolate all documented power and field energy and apply ESD controls where required.

5

Inspect the replacement identity, revision, interfaces and mating hardware before installation.

6

Restore every conductor, cable, power path and configuration value to the approved record.

7

Review host, module, channel or network diagnostics after controlled energization.

8

Perform a controlled test that proves cooling of the documented dual-node card-file installation before

RELATED APTER POWER PAGES

1

Honeywell 51401642-150

2

Honeywell 621-2200RC

3

Honeywell 8C-PAOH51 51454355-175

4

Honeywell 8C-TAIMA1 51307171-175

5

Honeywell 8C-TAOXA1 51307135-175

6

Honeywell 8C-TDILA1 51307141-175

7

Honeywell MC-PAOX03
51309152-175

8

Honeywell MC-TAIH12 51304337-150

9

Honeywell MC-TAOX12
51304335-175

ENGINEER FAQ

Q1 **Where is 51401496-100 used?**

It is installed as the two-node fan assembly in a Honeywell TDC 3000 cabinet.

Q2 **What does 51401496-100 cool?**

It provides forced-air cooling for the matched dual-node card-file electronics.

Q3 **Which identity must match before replacing 51401496-100?**

Match the full part number and the installed two-node fan position.

Q4 **What must be captured before removing 51401496-100?**

Record connector orientation, airflow direction, mounting position and the as-found alarm state.

Q5 **Why should nearby electronics be placed in a maintenance state for 51401496-100 service?**

Removing the fan assembly temporarily changes cabinet cooling.

Q6 **What physical checks apply to 51401496-100?**

Inspect fan rotation, guards, mounting hardware, connector seating and unobstructed airflow.

Q7 **How is airflow direction verified for 51401496-100?**

Confirm the replacement moves air in the same direction as the documented cabinet arrangement.

Q8 **What closes the 51401496-100 replacement task?**

Verify both fans run, airflow is clear and cabinet temperature remains stable without a cooling alarm.

RELATED APTER POWER PAGES

1 Honeywell 51401642-150

2 Honeywell 621-2200RC

3 Honeywell 8C-PAOH51 51454355-175

4 Honeywell 8C-TAIMA1 51307171-175

5 Honeywell 8C-TAOXA1 51307135-175

6 Honeywell 8C-TDILA1 51307141-175

7 Honeywell MC-PAOX03 51309152-175

8 Honeywell MC-TAIH12 51304337-150

9 Honeywell MC-TAOX12 51304335-175

SOURCE Honeywell TDC 3000 service parts record | Honeywell manufacturer publication

+86 180 3023 5313 | sales13@apterpower.com | www.apterpower.com