

The HVAC Service Assistant

An advanced diagnostic tool that is changing the HVAC service business

At Honeywell, we understand that running a HVAC contracting company isn't always easy. There's competition at every turn, offering similar services at competitive prices. That's why it's critical that your firm invest in new tools that deliver a "competitive edge" that increases staff productivity and profits and delivers improved services to maintain and grow your customer base. For technology, business and energy solutions, look to Honeywell's new HVAC Service Assistant.

Service technicians can now quickly and easily diagnose HVAC equipment problems, perform required service and improve rooftop unit efficiency. They can streamline and standardize data collection and reporting of equipment performance records. Honeywell's HVAC Service Assistant collects and processes service data in minutes using our exclusive Service Assistant Palm™ OS software on a Palm™ OS interface. Your staff will have a head start delivering service instead of spending hours determining what needs to be done. More jobs in less time. More time to spot profitable, energy saving solutions for your customers.

Good for your bottom line

Because the HVAC Service Assistant is so simple to use, your service technicians can cut inspection time by 50 to 85 percent, while increasing the level of service your company provides. Every tool your company puts into service can add up to \$20,000 per year to your bottom line. That's like having a new technician on the street for every two tools you buy—a 50 percent increase in productivity for every technician equipped with a HVAC Service Assistant.

The HVAC Service Assistant quickly and easily collects and analyzes data on equipment performance, allowing your staff time to survey the facility for control upgrades and propose additional energy saving opportunities. These opportunities could include commercial setback thermostat, VAV and commercial zoning, VFDs, or economizers with demand control ventilation. Your staff will be in a unique position to propose new energy conservation measures that will deliver measurable savings to your customers, earning you their loyalty and increased business.

Increase productivity

- Combines manifold pressure gauges, digital thermometers and inspection forms into one intuitively, easy to use tool
- Eliminates tedious measurements and manual calculations
- Accurately measures pressures and temperatures and calculates superheat and subcooling in minutes
- Indicates level of equipment efficiency for service prioritization
- Uses a digital checklist confirming completed inspection tasks and eliminates handwritten forms and reports
- Transfers and stores maintenance logs and performance histories to a PC or Honeywell's central server for future evaluation

Reliability you can count on

- Automatically calculates performance parameters, determines system faults and suggests corrective actions
- Improves accuracy of data collection and provides expert fault detection and diagnostic information—regardless of your service technician's level of experience
- Walks service technicians step-by-step through a customizable list of preventative maintenance tasks
- Automatically records results and provides a customized report listing equipment condition and services performed
- Provides higher quality, real time data, driving process improvements to a whole new level by reducing service technician errors

Good for your service business

Discover a new way to put technology to work within your company by turning service calls into new business opportunities. Now you can offer "building tune-ups" in the time it used to take to perform routine equipment assessment.

- Performs inspections using a maintenance checklist



Its easy to use features minimize the need for extensive training or computer experience.



- Generates detailed performance reports that identifies low efficiency units and suggested repairs
- Documents unit performance before and after service
- Documents delivered services to increase customer loyalty
- Provides convenient (optional) web access to your equipment portfolio service records
- Allows your staff to use Honeywell's Savings Estimator™ software to calculate additional rooftop unit potential energy savings and payback

Good for your customers

With HVAC Service Assistant's real time data and customized reports, your customers can easily see the substantial

benefits of a preventative maintenance program that delivers energy savings and extends equipment life.

- Reveals units running at and below peak efficiency
- Provides specific service recommendations
- Real-time calculation of A/C unit efficiency and capacity
- Projects energy savings estimates
- Provides 24 hour/7 day password protected access to service records

Web Based Reporting

Honeywell's optional web-reporting service makes it easy to upload service data from multiple service calls to one central server, using a telephone connection. Once loaded, Honeywell takes the data and generates useful service reports, calculating a unit efficiency index, as well as trend data and analysis reports for you and anyone with authorized access, using only their PC web browser.

Uploading data to the web is a snap. Just add a Palm™ modem and press the sync button. Automatically, the Palm™ interface will call a 1-800 number and transmit your data to a secure server. Once you have a web-service account established, you may easily view your data and begin generating reports using your browser.

Our web-reporting service offers the following features anytime, anywhere:

- Cycle performance reports
- Inspections and task lists
- Before-after reports that quantify performance improvements
- Information management utilities
- Owner and facility manager reports
- Service summaries to submit with billing
- Password protected access from the web

Available Product Packages:

HVAC Service Assistant – A7075A1000:

- Electronic manifold and pressure hoses
- Quick-test temperature harness
- HVAC Service Assistant Software for a Palm™ OS user interface *
- Data collection sync software for a PC

* TRGpro or other Palm™ OS user interface ordered separately

HVAC Service Assistant Palm™ OS User Interface – 32005711-001:

- TRGpro Palm™ type handheld computer
- Flash memory card for data protection
- Pre-loaded software
- Hot-Sync Cable
- Durable protective case

Optional accessories and services:

- Single stage sensor harnesses for permanent installations - 32005275-002
- Two stage sensor harnesses for permanent installations - 32005275-003
- Web based online service reports (optional)

Unit	Stage	Nominal Capacity	Date	Time	ET	SH	SC	PD	CTOA	Diagnosis	EI	CI	Actual Capacity	Consumption (kW)	Run Time (h)	Cost per year	Savings per year
10	1	10	5/21/01	11:38	27	25	37	148	53	Fix low side heat transfer problem then add charge.	45	58	5.82	14.81	3439	\$5,092	\$2,311.30
			6/1/01	11:59	27	40	17	126	13	Check for flow restriction.	89	77	7.70	10.71	2597	\$2,781	
	2	10	5/21/01	11:43	28	21	31	125	45	Fix low side heat transfer problem then add charge.	51	62	6.21	14.09	805	\$1,134	
			6/1/01	12:03	31	32	16	133	26	Check for flow restriction.	75	75	7.55	12.06	663	\$799	
11	1	10	5/21/01	11:53	27	22	47	191	66	Fix low side heat transfer problem then add charge.	38	53	5.28	15.73	3791	\$5,962	\$2,878.07
			6/1/01	12:14	26	28	10	113	14	Fix low side heat transfer problem then add charge.	80	70	7.01	10.82	2851	\$3,084	
	2	10	5/21/01	11:58	26	19	26	126	44	Fix low side heat transfer problem then add charge.	48	59	5.86	14.11	854	\$1,205	
			6/1/01	12:17	28	31	13	126	24	Check for flow restriction.	73	71	7.11	11.75	703	\$826	
12	1	3	5/21/01	12:26	32	23	31	192	67	Remove charge.	39	55	1.65	4.79	3628	\$1,738	\$854.62
			5/31/01	9:38	27	21	11	84	12	Fix low side heat transfer problem then add charge.	83	76	2.28	3.36	2632	\$883	
13	1	3	5/21/01	12:16	39	13	34	149	57	Remove charge.	51	74	2.23	4.91	2694	\$1,323	\$583.78
			6/1/01	12:36	36	16	13	105	14	No service required.	98	95	2.84	3.51	2109	\$740	
14	1	4	5/21/01	12:08	34	11	36	163	60	Remove charge.	45	66	2.64	6.59	3034	\$1,998	\$993.53
			6/28/01	13:22	39	10	10	169	18	No service required.	95	98	3.92	4.92	2041	\$1,004	

Whole store before service.....	318.40 kW	\$58,337
Whole store after service.....	268.11 kW	\$37,614
Total savings	50.28 kW	\$20,723
Actual service cost.....		\$4,300



Home and Building Control

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