

MECHANICAL THERMOSTAT HEAT ONLY

MECHANICAL THERMOSTAT HEAT ONLY SYSTEMS ARE A FUNDAMENTAL PART OF MANY HEATING SETUPS, OFFERING A STRAIGHTFORWARD AND RELIABLE METHOD TO CONTROL TEMPERATURE IN INDOOR ENVIRONMENTS. THESE DEVICES FOCUS EXCLUSIVELY ON REGULATING HEATING SYSTEMS WITHOUT THE ADDED COMPLEXITY OF COOLING OR MULTI-STAGE CONTROLS. MECHANICAL THERMOSTAT HEAT ONLY UNITS ARE PRIZED FOR THEIR SIMPLICITY, DURABILITY, AND EASE OF USE, MAKING THEM AN IDEAL CHOICE FOR HOUSEHOLDS AND COMMERCIAL SPACES THAT REQUIRE EFFICIENT HEATING MANAGEMENT. THIS ARTICLE EXPLORES THE VARIOUS ASPECTS OF MECHANICAL THERMOSTAT HEAT ONLY SYSTEMS, FROM THEIR WORKING PRINCIPLES AND BENEFITS TO INSTALLATION TIPS AND TROUBLESHOOTING ADVICE. UNDERSTANDING THESE FACTORS CAN HELP USERS OPTIMIZE THEIR HEATING SYSTEMS FOR COMFORT AND ENERGY EFFICIENCY. BELOW IS AN OUTLINE OF THE MAIN TOPICS COVERED IN THIS COMPREHENSIVE GUIDE.

- UNDERSTANDING MECHANICAL THERMOSTAT HEAT ONLY SYSTEMS
- BENEFITS OF USING MECHANICAL THERMOSTATS FOR HEAT ONLY
- INSTALLATION AND COMPATIBILITY CONSIDERATIONS
- HOW TO OPERATE MECHANICAL THERMOSTAT HEAT ONLY UNITS
- COMMON ISSUES AND TROUBLESHOOTING TIPS
- ENERGY EFFICIENCY AND MAINTENANCE

UNDERSTANDING MECHANICAL THERMOSTAT HEAT ONLY SYSTEMS

MECHANICAL THERMOSTAT HEAT ONLY SYSTEMS ARE TEMPERATURE CONTROL DEVICES DESIGNED SPECIFICALLY TO REGULATE HEATING APPLIANCES SUCH AS FURNACES, BOILERS, OR ELECTRIC HEATERS. UNLIKE MODERN DIGITAL OR PROGRAMMABLE THERMOSTATS, MECHANICAL THERMOSTATS USE PHYSICAL COMPONENTS LIKE BIMETALLIC STRIPS OR MERCURY SWITCHES TO SENSE TEMPERATURE CHANGES AND ACTIVATE OR DEACTIVATE THE HEATING SYSTEM ACCORDINGLY. THEIR DESIGN FOCUSES SOLELY ON HEAT REGULATION, EXCLUDING COOLING FUNCTIONS OFTEN FOUND IN MORE COMPLEX THERMOSTATS. THIS SIMPLICITY ENSURES DEPENDABLE PERFORMANCE WITH MINIMAL TECHNICAL COMPLICATIONS.

HOW MECHANICAL THERMOSTATS WORK

THE CORE MECHANISM OF MECHANICAL THERMOSTAT HEAT ONLY UNITS INVOLVES A TEMPERATURE-SENSITIVE ELEMENT, TYPICALLY A BIMETALLIC COIL OR STRIP. AS AMBIENT TEMPERATURE CHANGES, THIS ELEMENT EXPANDS OR CONTRACTS, TRIGGERING AN ELECTRICAL CONTACT TO OPEN OR CLOSE. WHEN THE TEMPERATURE DROPS BELOW A SET POINT, THE THERMOSTAT CLOSES THE CIRCUIT, SIGNALING THE HEATING SYSTEM TO TURN ON. ONCE THE DESIRED TEMPERATURE IS REACHED, THE CIRCUIT OPENS, TURNING THE HEATER OFF. THIS ON/OFF CYCLING MAINTAINS CONSISTENT INDOOR WARMTH WITHOUT THE NEED FOR ELECTRONIC CONTROLS OR SOFTWARE.

TYPES OF MECHANICAL THERMOSTATS FOR HEAT ONLY

SEVERAL TYPES OF MECHANICAL THERMOSTATS ARE AVAILABLE FOR HEAT ONLY APPLICATIONS, VARYING MAINLY BY THE SENSING MECHANISM AND CONTROL STYLE:

- **BIMETALLIC STRIP THERMOSTATS:** USE TWO METALS BONDED TOGETHER THAT EXPAND AT DIFFERENT RATES TO ACTUATE THE SWITCH.

- **GAS-FILLED BULB THERMOSTATS:** EMPLOY A SEALED BULB FILLED WITH GAS THAT EXPANDS WITH TEMPERATURE, MOVING A DIAPHRAGM TO OPEN OR CLOSE CONTACTS.
- **MERCURY SWITCH THERMOSTATS:** UTILIZE A SMALL AMOUNT OF MERCURY INSIDE A SEALED CHAMBER THAT TILTS TO COMPLETE OR BREAK THE CIRCUIT.

BENEFITS OF USING MECHANICAL THERMOSTATS FOR HEAT ONLY

MECHANICAL THERMOSTAT HEAT ONLY SYSTEMS OFFER SEVERAL ADVANTAGES THAT MAKE THEM A PRACTICAL CHOICE FOR HEATING CONTROL. THEIR STRAIGHTFORWARD DESIGN TRANSLATES TO LOWER COST AND EASE OF MAINTENANCE COMPARED TO ELECTRONIC OR PROGRAMMABLE UNITS. ADDITIONALLY, MECHANICAL THERMOSTATS ARE HIGHLY RELIABLE IN ENVIRONMENTS WHERE POWER INTERRUPTIONS OR ELECTRICAL INTERFERENCE MAY AFFECT DIGITAL DEVICES. THEY PROVIDE CONSISTENT TEMPERATURE REGULATION WITHOUT THE NEED FOR COMPLEX PROGRAMMING OR SOFTWARE UPDATES.

DURABILITY AND RELIABILITY

ONE OF THE KEY BENEFITS OF MECHANICAL THERMOSTAT HEAT ONLY MODELS IS THEIR DURABILITY. WITH FEWER ELECTRONIC COMPONENTS, THEY ARE LESS PRONE TO FAILURE CAUSED BY POWER SURGES OR SOFTWARE GLITCHES. THIS MAKES THEM SUITABLE FOR BOTH RESIDENTIAL AND COMMERCIAL HEATING APPLICATIONS WHERE LONG-TERM RELIABILITY IS ESSENTIAL.

EASE OF USE AND MAINTENANCE

MECHANICAL THERMOSTATS ARE USER-FRIENDLY, FEATURING SIMPLE DIALS OR LEVERS TO SET DESIRED TEMPERATURE LEVELS. THEIR MECHANICAL NATURE ALLOWS FOR STRAIGHTFORWARD MAINTENANCE, SUCH AS CLEANING CONTACTS OR REPLACING FAULTY PARTS, OFTEN WITHOUT PROFESSIONAL ASSISTANCE. THIS ASPECT REDUCES OVERALL MAINTENANCE COSTS AND DOWNTIME.

COST-EFFECTIVENESS

COMPARED TO DIGITAL OR SMART THERMOSTATS, MECHANICAL HEAT ONLY THERMOSTATS GENERALLY HAVE A LOWER PURCHASE PRICE. THEIR INSTALLATION IS SIMPLER AND REQUIRES FEWER TECHNICAL ADJUSTMENTS, RESULTING IN REDUCED LABOR COSTS. FOR USERS SEEKING A BUDGET-FRIENDLY HEATING CONTROL SOLUTION, MECHANICAL THERMOSTATS REMAIN A VIABLE OPTION.

INSTALLATION AND COMPATIBILITY CONSIDERATIONS

PROPER INSTALLATION OF MECHANICAL THERMOSTAT HEAT ONLY DEVICES IS CRUCIAL TO ENSURE ACCURATE TEMPERATURE CONTROL AND SYSTEM EFFICIENCY. THESE THERMOSTATS ARE COMPATIBLE WITH A VARIETY OF HEATING SYSTEMS BUT REQUIRE SPECIFIC WIRING AND PLACEMENT CONSIDERATIONS. UNDERSTANDING COMPATIBILITY HELPS AVOID OPERATIONAL ISSUES AND MAXIMIZES PERFORMANCE.

COMPATIBLE HEATING SYSTEMS

MECHANICAL THERMOSTAT HEAT ONLY UNITS ARE TYPICALLY COMPATIBLE WITH HEATING SYSTEMS THAT OPERATE ON SIMPLE ON/OFF CONTROL MECHANISMS. COMMON COMPATIBLE SYSTEMS INCLUDE:

- FURNACES FUELED BY NATURAL GAS, OIL, OR ELECTRICITY

- ELECTRIC BASEBOARD HEATERS
- HYDRONIC HEATING SYSTEMS WITH BOILERS
- RADIANT HEAT PANELS

HOWEVER, THEY ARE NOT SUITABLE FOR SYSTEMS REQUIRING MULTI-STAGE OR VARIABLE SPEED CONTROLS, WHICH DEMAND MORE SOPHISTICATED THERMOSTAT MODELS.

INSTALLATION BEST PRACTICES

TO ENSURE OPTIMAL OPERATION, THE THERMOSTAT SHOULD BE INSTALLED IN A LOCATION REPRESENTATIVE OF THE AVERAGE ROOM TEMPERATURE, AWAY FROM HEAT SOURCES, DRAFTS, DIRECT SUNLIGHT, OR EXTERIOR WALLS. WIRING MUST FOLLOW MANUFACTURER GUIDELINES TO CONNECT PROPERLY TO THE HEATING SYSTEM'S CONTROL CIRCUIT. IT IS RECOMMENDED TO TURN OFF POWER TO THE HEATING SYSTEM DURING INSTALLATION TO PREVENT ELECTRICAL HAZARDS.

HOW TO OPERATE MECHANICAL THERMOSTAT HEAT ONLY UNITS

OPERATING A MECHANICAL THERMOSTAT HEAT ONLY DEVICE IS STRAIGHTFORWARD, MAKING IT ACCESSIBLE FOR USERS WITHOUT TECHNICAL EXPERTISE. THE MAIN CONTROL IS USUALLY A DIAL OR LEVER THAT SETS THE DESIRED TEMPERATURE THRESHOLD. UNDERSTANDING BASIC OPERATION ENSURES EFFECTIVE TEMPERATURE MANAGEMENT AND COMFORT.

SETTING THE TEMPERATURE

THE THERMOSTAT TYPICALLY FEATURES A MARKED DIAL INDICATING TEMPERATURE SETTINGS IN DEGREES FAHRENHEIT OR CELSIUS. USERS ADJUST THE DIAL TO THEIR PREFERRED COMFORT LEVEL. THE MECHANICAL ELEMENT INSIDE RESPONDS ACCORDINGLY TO ACTIVATE OR DEACTIVATE THE HEATING SYSTEM AS THE ROOM TEMPERATURE FLUCTUATES AROUND THE SET POINT.

ADJUSTING FOR SEASONAL CHANGES

SINCE MECHANICAL THERMOSTATS LACK PROGRAMMABLE SCHEDULES, MANUAL ADJUSTMENT IS NECESSARY TO ACCOMMODATE SEASONAL TEMPERATURE VARIATIONS. USERS SHOULD INCREASE THE SET TEMPERATURE DURING COLDER MONTHS AND LOWER IT WHEN HEATING IS NOT NEEDED TO OPTIMIZE ENERGY USE.

COMMON ISSUES AND TROUBLESHOOTING TIPS

WHILE MECHANICAL THERMOSTAT HEAT ONLY SYSTEMS ARE RELIABLE, OCCASIONAL PROBLEMS CAN ARISE. IDENTIFYING AND ADDRESSING THESE ISSUES PROMPTLY HELPS MAINTAIN CONSISTENT HEATING AND PREVENTS SYSTEM DAMAGE.

THERMOSTAT NOT TURNING HEATER ON OR OFF

IF THE HEATING SYSTEM FAILS TO RESPOND TO THERMOSTAT SETTINGS, POSSIBLE CAUSES INCLUDE:

- WORN OR DIRTY CONTACTS PREVENTING ELECTRICAL CONNECTION
- INCORRECT WIRING OR LOOSE CONNECTIONS

- FAULTY TEMPERATURE SENSING ELEMENT

CLEANING CONTACTS OR VERIFYING WIRING CONNECTIONS OFTEN RESOLVES THESE ISSUES. IN CASES OF DAMAGED SENSING ELEMENTS, REPLACEMENT OF THE THERMOSTAT MAY BE NECESSARY.

INACCURATE TEMPERATURE READINGS

MECHANICAL THERMOSTATS CAN LOSE CALIBRATION OVER TIME, RESULTING IN TEMPERATURE READINGS THAT DO NOT REFLECT ACTUAL ROOM CONDITIONS. THIS MAY CAUSE THE HEATER TO RUN TOO LONG OR NOT ENOUGH, LEADING TO DISCOMFORT AND ENERGY WASTE. RECALIBRATING THE THERMOSTAT OR RELOCATING IT TO A MORE SUITABLE SPOT CAN IMPROVE ACCURACY.

ENERGY EFFICIENCY AND MAINTENANCE

MAINTAINING ENERGY EFFICIENCY WITH MECHANICAL THERMOSTAT HEAT ONLY SYSTEMS INVOLVES PROPER USAGE AND REGULAR UPKEEP. WHILE THESE UNITS LACK ADVANCED ENERGY-SAVING FEATURES FOUND IN DIGITAL THERMOSTATS, SIMPLE PRACTICES CAN ENHANCE PERFORMANCE AND REDUCE HEATING COSTS.

REGULAR MAINTENANCE TASKS

KEY MAINTENANCE ACTIVITIES INCLUDE:

1. CLEANING THERMOSTAT CONTACTS TO ENSURE RELIABLE ELECTRICAL CONNECTIONS
2. INSPECTING WIRING FOR SIGNS OF WEAR OR CORROSION
3. CHECKING AND REPLACING BATTERIES IF THE THERMOSTAT HAS ANY ELECTRONIC COMPONENTS
4. ENSURING THE THERMOSTAT IS FREE FROM DUST AND DEBRIS

OPTIMIZING ENERGY USE

TO MAXIMIZE EFFICIENCY, USERS SHOULD:

- SET THE THERMOSTAT TO THE LOWEST COMFORTABLE TEMPERATURE
- MANUALLY LOWER THE TEMPERATURE SETTING WHEN THE SPACE IS UNOCCUPIED
- CONSIDER UPGRADING INSULATION AND SEALING DRAFTS TO REDUCE HEAT LOSS
- SCHEDULE REGULAR HEATING SYSTEM MAINTENANCE TO ENSURE OPTIMAL OPERATION

FREQUENTLY ASKED QUESTIONS

WHAT IS A MECHANICAL THERMOSTAT HEAT ONLY?

A MECHANICAL THERMOSTAT HEAT ONLY IS A DEVICE USED TO CONTROL HEATING SYSTEMS BY TURNING THE HEAT ON OR OFF BASED ON THE TEMPERATURE SETTING, WITHOUT ANY COOLING FUNCTION.

HOW DOES A MECHANICAL THERMOSTAT HEAT ONLY WORK?

IT WORKS BY USING A BIMETALLIC STRIP OR A GAS-FILLED BELLOWS THAT PHYSICALLY MOVES TO OPEN OR CLOSE ELECTRICAL CONTACTS, CONTROLLING THE HEATING SYSTEM BASED ON THE TEMPERATURE SET BY THE USER.

WHAT ARE THE ADVANTAGES OF USING A MECHANICAL THERMOSTAT HEAT ONLY?

ADVANTAGES INCLUDE SIMPLICITY, RELIABILITY, NO NEED FOR BATTERIES OR POWER SOURCE, EASE OF USE, AND TYPICALLY LOWER COST COMPARED TO DIGITAL OR PROGRAMMABLE THERMOSTATS.

CAN A MECHANICAL THERMOSTAT HEAT ONLY BE USED FOR CENTRAL HEATING SYSTEMS?

YES, MECHANICAL THERMOSTATS HEAT ONLY ARE COMMONLY USED WITH CENTRAL HEATING SYSTEMS SUCH AS FURNACES OR BOILERS TO MAINTAIN A DESIRED INDOOR TEMPERATURE.

HOW DO YOU INSTALL A MECHANICAL THERMOSTAT HEAT ONLY?

INSTALLATION GENERALLY INVOLVES TURNING OFF POWER TO THE HEATING SYSTEM, MOUNTING THE THERMOSTAT ON A WALL AWAY FROM DIRECT SUNLIGHT OR DRAFTS, AND WIRING IT ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS TO THE HEATING SYSTEM'S CONTROL CIRCUIT.

WHAT MAINTENANCE IS REQUIRED FOR A MECHANICAL THERMOSTAT HEAT ONLY?

MAINTENANCE IS MINIMAL BUT MAY INCLUDE CLEANING THE THERMOSTAT INTERIOR, ENSURING THE CONTACTS ARE FREE OF DUST AND CORROSION, AND CHECKING CALIBRATION PERIODICALLY TO ENSURE ACCURATE TEMPERATURE CONTROL.

CAN A MECHANICAL THERMOSTAT HEAT ONLY BE REPLACED WITH A DIGITAL THERMOSTAT?

YES, A MECHANICAL THERMOSTAT HEAT ONLY CAN BE REPLACED WITH A DIGITAL OR PROGRAMMABLE THERMOSTAT FOR MORE PRECISE TEMPERATURE CONTROL AND ADDITIONAL FEATURES, PROVIDED THE WIRING AND SYSTEM COMPATIBILITY ARE CONFIRMED.

WHY IS MY MECHANICAL THERMOSTAT HEAT ONLY NOT TURNING THE HEAT ON?

POSSIBLE REASONS INCLUDE INCORRECT WIRING, A FAULTY THERMOSTAT, A TRIPPED CIRCUIT BREAKER, OR ISSUES WITH THE HEATING SYSTEM ITSELF SUCH AS A BROKEN FURNACE OR BOILER.

ARE MECHANICAL THERMOSTATS HEAT ONLY ENERGY EFFICIENT?

MECHANICAL THERMOSTATS HEAT ONLY ARE LESS ENERGY EFFICIENT COMPARED TO PROGRAMMABLE OR SMART THERMOSTATS BECAUSE THEY LACK FEATURES LIKE SCHEDULING AND ADAPTIVE LEARNING, BUT THEY STILL PROVIDE BASIC TEMPERATURE CONTROL.

WHAT TEMPERATURE RANGE DO MECHANICAL THERMOSTAT HEAT ONLY DEVICES TYPICALLY COVER?

THEY TYPICALLY COVER A TEMPERATURE RANGE FROM ABOUT 40°F TO 90°F (4°C TO 32°C), SUITABLE FOR RESIDENTIAL HEATING NEEDS.

ADDITIONAL RESOURCES

1. *MECHANICAL THERMOSTAT FUNDAMENTALS: HEAT-ONLY SYSTEMS EXPLAINED*

THIS BOOK PROVIDES A COMPREHENSIVE INTRODUCTION TO MECHANICAL THERMOSTATS USED EXCLUSIVELY FOR HEATING SYSTEMS. IT COVERS THE BASIC PRINCIPLES OF THERMOSTAT OPERATION, FOCUSING ON HEAT-ONLY APPLICATIONS. READERS WILL LEARN ABOUT THE COMPONENTS, WIRING, AND COMMON TROUBLESHOOTING TECHNIQUES TO ENSURE EFFICIENT HEATING CONTROL.

2. *HEAT-ONLY THERMOSTATS: DESIGN AND APPLICATION*

A DETAILED GUIDE EXPLORING THE DESIGN ASPECTS OF MECHANICAL THERMOSTATS TAILORED FOR HEAT-ONLY SYSTEMS. THE BOOK INCLUDES PRACTICAL ADVICE ON INSTALLATION, CALIBRATION, AND MAINTENANCE TO OPTIMIZE HEATING PERFORMANCE. IT ALSO COMPARES DIFFERENT THERMOSTAT MODELS AND THEIR SUITABILITY FOR VARIOUS HEATING SETUPS.

3. *THERMOSTAT CONTROLS FOR HEATING: MECHANICAL SOLUTIONS*

FOCUSING ON MECHANICAL CONTROL DEVICES, THIS BOOK DELVES INTO THE INTRICACIES OF THERMOSTATS THAT MANAGE HEAT-ONLY SYSTEMS. IT EXPLAINS HOW MECHANICAL THERMOSTATS REGULATE TEMPERATURE, THE ROLE OF BIMETALLIC STRIPS, AND HOW TO ADJUST SETTINGS FOR MAXIMUM COMFORT. CASE STUDIES HIGHLIGHT COMMON ISSUES AND THEIR FIXES.

4. *HEAT-ONLY MECHANICAL THERMOSTATS: TROUBLESHOOTING AND REPAIR*

AN ESSENTIAL RESOURCE FOR HVAC TECHNICIANS AND HOMEOWNERS, THIS BOOK TACKLES COMMON PROBLEMS ENCOUNTERED WITH MECHANICAL HEAT-ONLY THERMOSTATS. STEP-BY-STEP REPAIR GUIDES AND DIAGNOSTIC TIPS HELP READERS MAINTAIN SYSTEM RELIABILITY AND EXTEND THERMOSTAT LIFESPAN. IT EMPHASIZES SAFETY AND PROPER HANDLING DURING REPAIRS.

5. *THE SCIENCE OF MECHANICAL THERMOSTATS IN HEAT-ONLY HEATING*

THIS BOOK OFFERS AN IN-DEPTH SCIENTIFIC EXPLANATION OF HOW MECHANICAL THERMOSTATS OPERATE IN HEAT-ONLY HEATING SYSTEMS. IT EXPLORES THERMODYNAMICS, MATERIAL SCIENCE, AND MECHANICAL ENGINEERING PRINCIPLES BEHIND THERMOSTAT FUNCTIONALITY. IDEAL FOR STUDENTS AND PROFESSIONALS SEEKING A TECHNICAL UNDERSTANDING.

6. *ENERGY EFFICIENCY AND MECHANICAL THERMOSTATS FOR HEAT-ONLY SYSTEMS*

EXPLORE HOW MECHANICAL THERMOSTATS CONTRIBUTE TO ENERGY SAVINGS IN HEAT-ONLY HEATING SYSTEMS. THIS BOOK DISCUSSES STRATEGIES FOR OPTIMIZING THERMOSTAT SETTINGS TO REDUCE ENERGY CONSUMPTION WITHOUT SACRIFICING COMFORT. IT ALSO REVIEWS ADVANCEMENTS IN MECHANICAL THERMOSTAT TECHNOLOGY AIMED AT IMPROVING EFFICIENCY.

7. *INSTALLATION GUIDE FOR MECHANICAL HEAT-ONLY THERMOSTATS*

A PRACTICAL MANUAL THAT WALKS USERS THROUGH THE CORRECT INSTALLATION PROCEDURES OF MECHANICAL THERMOSTATS DESIGNED FOR HEAT-ONLY HEATING SYSTEMS. IT INCLUDES WIRING DIAGRAMS, MOUNTING TIPS, AND CALIBRATION INSTRUCTIONS TO ENSURE ACCURATE TEMPERATURE CONTROL. THE GUIDE HELPS AVOID COMMON INSTALLATION MISTAKES.

8. *MECHANICAL THERMOSTATS VS. DIGITAL CONTROLS IN HEAT-ONLY HEATING*

THIS COMPARATIVE STUDY EVALUATES THE ADVANTAGES AND DISADVANTAGES OF MECHANICAL THERMOSTATS COMPARED TO DIGITAL CONTROLS IN HEAT-ONLY HEATING APPLICATIONS. READERS WILL GAIN INSIGHTS INTO COST, RELIABILITY, USER-FRIENDLINESS, AND PERFORMANCE DIFFERENCES. THE BOOK AIDS IN MAKING INFORMED DECISIONS FOR HEATING SYSTEM UPGRADES.

9. *MAINTAINING MECHANICAL THERMOSTATS IN HEAT-ONLY ENVIRONMENTS*

FOCUSING ON ROUTINE MAINTENANCE, THIS BOOK PROVIDES GUIDELINES FOR KEEPING MECHANICAL THERMOSTATS OPERATING EFFICIENTLY IN HEAT-ONLY HEATING SYSTEMS. IT COVERS CLEANING, CALIBRATION CHECKS, AND PARTS REPLACEMENT SCHEDULES. PRACTICAL TIPS HELP PROLONG THERMOSTAT LIFE AND MAINTAIN CONSISTENT HEATING PERFORMANCE.

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