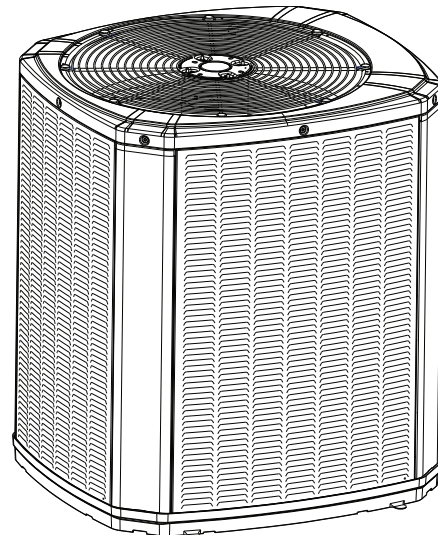




Product Data

TRANE Link or ComfortLink™ II Variable Speed Air Conditioners

4TTV8X24A1000A
4TTV8X36A1000A
4TTV8X48A1000A
4TTV8X60A1000A



Note: "Graphics in this document are for representation only. Actual model may differ in appearance."



Mechanical Specification Options

General

This unit is designed to operate at outdoor ambient temperatures from 55° F to 120° F in cooling. From -10° F to 66° F in heating (heat pumps only). Only AHRI approved indoor matches are approved for use with these models.

TRANE Link or ComfortLink™ II Air Conditioners

This outdoor unit contains the TRANE Link or ComfortLink™ II Air Conditioners digital communication with 2 wire connection to outdoor and Plug-n-Play set up.

Casing

Unit casing is constructed of heavy gauge. G60 galvanized steel and painted with a weather-resistant powder paint on all louvered panels and prepaint on all other panels. Corrosion and weatherproof CMBP-G30 DuraTuff™ base.

Refrigerant Controls

Refrigeration system controls include condenser fan, compressor contactor and high and low pressure switches. A factory supplied, field installed filter is standard.

Compressor

Inverter driven scroll compressor with 25 to 100% output capacity on heat pumps and 30 to 100% output capacity on air conditioners. Noise enclosure minimizes sound levels and built in compressor protection protects compressor will reduce operating speed and current draw to maintain operation while protecting the compressor.

Condenser Coil

The Spine Fin™ outdoor coil provides low airflow resistance and efficient heat transfer. The coil is protected on all four sides by louvered panels.

Low Ambient Cooling

As manufactured, this system has built in freeze protection that will allow cooling operation below 55°F but will reduce capacity or shut down completely to prevent operation under adverse conditions.

Comfort Control

The 1050/950/850 Control is required and provides Plug-n-Play setup and 3 wire connection.



Product Specifications

Air Conditioner Models

| OUTDOOR UNIT ^{(a) (b)} | 4TTV8X24A1000A | 4TTV8X36A1000A | 4TTV8X48A1000A | 4TTV8X60A1000A |
|--|--------------------|--------------------|--------------------|----------------------|
| POWER CONNS. — V/PH/HZ ^(c) | 208/230/1/60 | 208/230/1/60 | 208/230/1/60 | 208/230/1/60 |
| MIN. BRCH. CIR. AMPACITY | 17.0 | 18.0 | 23.0 | 27.0 |
| BR. CIR. PROT. RTG. — MAX. (AMPS) | 25 | 25 | 35 | 40 |
| COMPRESSOR | SCROLL | SCROLL | SCROLL | SCROLL |
| NO. USED — NO. SPEEDS | 1-VARIABLE | 1-VARIABLE | 1-VARIABLE | 1-VARIABLE |
| R.L. AMPS ^(d) — L.R. AMPS | 11.5 — 10.2 | 12.4 — 10.2 | 16.0 — 12.0 | 19.3 — 12.0 |
| FACTORY INSTALLED | | | | |
| START COMPONENTS ^(e) | NA | NA | NA | NA |
| INSULATION/SOUND BLANKET | YES | YES | YES | YES |
| COMPRESSOR HEAT | YES | YES | YES | YES |
| OUTDOOR FAN | | | | |
| DIA. (IN.) — NO. USED | 23 — 1 | 23 — 1 | 27.5 — 1 | 27.5 — 1 |
| TYPE DRIVE — NO. SPEEDS | DIRECT — VARIABLE | DIRECT — VARIABLE | DIRECT — VARIABLE | DIRECT — VARIABLE |
| CFM @ 0.0 IN. W.G. ^(f) | 2680 | 2850 | 4560 | 4787 |
| NO. MOTORS — HP | 1 — 1/3 | 1 — 1/3 | 1 — 1/3 | 1 — 1/3 |
| MOTOR SPEED R.P.M. | 200 — 1200 | 200 — 1200 | 200 — 1200 | 200 — 1200 |
| VOLTS/PH/HZ | 208/230/1/60 | 208/230/1/60 | 208/230/1/60 | 208/230/1/60 |
| F.L. AMPS | 2.8 | 2.8 | 2.8 | 2.8 |
| OUTDOOR COIL — TYPE | SPINE FIN™ | SPINE FIN™ | SPINE FIN™ | SPINE FIN™ |
| ROWS — F.P.I. | 1 — 24 | 1 — 24 | 1 — 24 | 1 — 24 |
| FACE AREA (SQ. FT.) | 19.77 | 23.75 | 27.87 | 30.80 |
| TUBE SIZE (IN.) | 3/8 | 3/8 | 3/8 | 3/8 |
| REFRIGERANT | R410-A | R410-A | R410-A | R410-A |
| LBS. — R-410A (O.D. UNIT) ^(g) | 7 lb — 6 oz | 7 lb — 14 oz | 11 lb — 9 oz | 12 lb — 12 oz |
| FACTORY SUPPLIED | YES | YES | YES | YES |
| LINE SIZE — IN. O.D. GAS | 5/8 ^(h) | 3/4 ^(h) | 7/8 ^(h) | 1-1/8 ⁽ⁱ⁾ |
| LINE SIZE — IN. O.D. LIQ. ^(h) | 3/8 | 3/8 | 3/8 | 3/8 |
| CHARGING SPECIFICATIONS | | | | |
| SUBCOOLING | 10° | 10° | 10° | 10° |
| DIMENSIONS | H X W X D | H X W X D | H X W X D | H X W X D |
| CRATED (IN.) | 46 X 30.1 X 33 | 46 X 30.1 X 33 | 46.4 X 35.1 X 38.7 | 51 X 35.1 X 38.7 |
| WEIGHT | | | | |
| SHIPPING (LBS.) | 217 | 228 | 270 | 284 |
| NET (LBS.) | 196 | 207 | 245 | 258 |

^(a) Certified in accordance with the Air-Source Unitary Air-conditioner Equipment certification program, which is based on AHRI standard 210/240.

^(b) Rated in accordance with AHRI standard 270/275.

^(c) Calculated in accordance with Natl. Elec. Codes. Use only HACR circuit breakers or fuses.

^(d) This value shown for compressor RLA on the unit nameplate and on this specification sheet is used to compute minimum branch circuit ampacity and max. fuse size. The value shown is the branch circuit selection current.

^(e) NA means no start components. Yes means quick start kit components. PTC means positive temperature coefficient starter.

^(f) Standard Air — Dry Coil — Outdoor

^(g) This value approximate. For more precise value see unit nameplate.

^(h) Max. linear length 150 ft.; Max. lift — Suction 50 ft.; Max. lift — Liquid 50 ft.

⁽ⁱ⁾ Max length of refrigerant lines from outdoor to indoor unit MUST NOT exceed 80 feet. The max vertical change MUST NOT exceed 25 feet. See footnote (h) if 7/8" suction line is used.



Sound Data

| Model | Mode | Speed | A-Weighted Sound Power Level [dB(A)] | Full Octave Sound Power [dB] | | | | | | | |
|-----------|------|-------|--------------------------------------|------------------------------|--------|--------|--------|---------|---------|---------|---------|
| | | | | 63 Hz | 125 Hz | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | 8000 Hz |
| 4TTV8X24A | Cool | Min | 57 | 71.2 | 49.8 | 51.4 | 58.3 | 51.6 | 44.2 | 37.4 | 41.2 |
| | Cool | Max | 66 | 74.8 | 64.1 | 61.3 | 66.2 | 61.2 | 56.3 | 49.4 | 46.5 |
| 4TTV8X36A | Cool | Min | 55 | 71.0 | 53.4 | 51.2 | 53.5 | 51.5 | 44.6 | 40.3 | 41.0 |
| | Cool | Max | 70 | 73.1 | 70.5 | 65.8 | 67.3 | 66.0 | 60.9 | 54.1 | 50.0 |
| 4TTV8X48A | Cool | Min | 57 | 70.7 | 52.5 | 51.7 | 55.3 | 53.4 | 43.6 | 35.1 | 41.6 |
| | Cool | Max | 74 | 75.5 | 73.6 | 72.0 | 72.8 | 68.7 | 63.9 | 58.3 | 52.1 |
| 4TTV8X60A | Cool | Min | 62 | 71.7 | 55.8 | 56.8 | 56.7 | 60.1 | 44.7 | 42.3 | 41.0 |
| | Cool | Max | 75 | 87.8 | 77.6 | 75.2 | 72.2 | 70.2 | 64.7 | 59.0 | 51.1 |

NOTE: Rated in accordance with AHRI Standard 270

| Model | Mode | Speed | Sound Pressure in dBA | | | |
|-----------|------|-------|-----------------------|-------|--------|--------|
| | | | at 3' | at 5' | at 10' | at 15' |
| 4TTV8X24A | Cool | Min | 50 | 45 | 39 | 36 |
| | Cool | Max | 59 | 54 | 48 | 45 |
| 4TTV8X36A | Cool | Min | 48 | 43 | 37 | 34 |
| | Cool | Max | 63 | 58 | 52 | 49 |
| 4TTV8X48A | Cool | Min | 50 | 45 | 39 | 36 |
| | Cool | Max | 67 | 62 | 56 | 53 |
| 4TTV8X60A | Cool | Min | 55 | 50 | 44 | 41 |
| | Cool | Max | 68 | 63 | 57 | 54 |

NOTE: Rated in accordance with AHRI Standard 275



Optional Accessories:

| Model | 4TTV8X24A | 4TTV8X36A | 4TTV8X48A | 4TTV8X60A |
|------------------------------------|------------|------------|------------|------------|
| Rubber Isolator Kit | BAYISLT101 | BAYISLT101 | BAYISLT101 | BAYISLT101 |
| Snow Leg — Base & Cap 4" High | BAYLEGS002 | BAYLEG2002 | BAYLEGS002 | BAYLEGS002 |
| Snow Leg — 4" Extension | BAYLEGS003 | BAYLEGS003 | BAYLEGS003 | BAYLEGS003 |
| Extreme Condition Mounting Kit | BAYECMT023 | BAYECMT023 | BAYECMT004 | BAYECMT004 |
| Refrigerant Lineset ^(a) | | | | |

^(a) 25, 30, 35 and 50 foot linesets available. For a complete listing of lineset options available from equipment or supply stores, refer to the Trane Residential and Light Commercial Product Handbook.

General Data

AHRI STANDARD 210/240 RATING CONDITIONS

- Cooling 80°F DB, 67°F WB air entering indoor coil, 95°F DB air entering outdoor coil.
- High Temperature Heating 47°F DB, 43°F WB air entering outdoor coil, 70°F DB entering indoor coil.
- Low Temperature Heating 17°F DB, 15°F WB air entering outdoor coil, 70°F DB air entering indoor coil.
- Rated indoor airflow for heating is the same as for cooling.

AHRI STANDARD 270 RATING CONDITIONS — (Noise rating numbers are determined with the unit in cooling operation) Standard Noise Rating number is at 95°F outdoor air.



Model Nomenclature

Outdoor Units

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
 4 T W V 0 0 3 6 A 1 0 0 0 A A

- Refrigerant Type
 - 2 = R-22
 - 4 = R-410A
- TRANE
- Product Type
 - W = Split Heat Pump
 - T = Split Cooling
- Product Family
 - V = Variable Speed
 - Z = Leadership - Two Stage
 - X = Leadership
 - R = Replacement/Retail
- M or B = Basic
- A = Light Commercial
- Family SEER
 - 3 = 13 6 = 16 0 = 20
 - 4 = 14 8 = 18
 - 5 = 15 9 = 19
- Split System Connections 1-6 Tons
 - 0 = Brazed
- Nominal Capacity in 000s of BTUs
- Major Design Modifications
- Power Supply
 - 1 = 200-230/1/60 or 208-230/1/60
 - 3 = 200-230/3/60
 - 4 = 460/3/60
- Secondary Function
- Minor Design Modifications
- Unit Parts Identifier

Air Handler

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
 T A M 8 C 0 B 3 6 V 3 1 C A A

- Brand
 - T = Trane
 - G = Good (Trane Branded)
- Product Type
 - A = Air Handler
- Convertability
 - M = Multi-poise 4-way
 - F = Upflow Front Return, 3-way
 - T = 3-way
- Product Tier
 - 2 = Good, Entry Level Feature Set
 - 4 = Better, Retail Replacement Mid Effy
 - 5 = Better, Entry Level High Effy, Multi-Speed
 - 7 = Best, Retail Replacement High Effy
 - 8 = Best, Retail Ultimate High Effy Variable-Speed
- Major Design Change
- No Descriptor
 - 0 = Air Handler / Coil
- Size (Footprint)
 - A = 17.5 x 21.5
 - B = 21.0 x 21.5
 - C = 23.5 x 21.5
- Cooling Size: Air Handler or Coil
 - 0-9 = AH Coil - 1000 BTUs (18, 24, 30, 36, 42, 48, 60)
- Airflow Type & Capability
 - S = Low Effy PSC, 1-5 - nom. Tonnage (cfm/ton)
 - M = Mid Effy Multi-Speed, 1-5 - nom. Tonnage (cfm/ton)
 - H = High Effy Multi-Speed, 1-5 - nom. Tonnage (cfm/ton)
 - V = High Effy Variable, 1-5 - nom. Tonnage (cfm/ton)
- Power Supply
 - 1 = 208-230/1/60
- System Control Type
 - S = Standard - 24VAC
 - C = CLII 13.8 VDC
- Minor Design Change
- Unit Parts Identifier

Gas Furnaces

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
 T U H 1 B 0 8 0 A C V 3 V A A

- Furnace Configuration
 - TU = Upflow/Horizontal
 - TD = Downflow/Horizontal
- Type
 - E = 80% Induced Draft Standard
 - D = 80% Induced Draft Premium
 - C = 90% Condensing Standard
 - X = 90% Condensing Premium
 - H = 95% Condensing Premium
- Number of Heating Stages
 - 1 = Single Stage
 - 2 = Two Stage
 - 3 = Three Stage
 - M = Modulating
- Cabinet Width
 - A = 14.5" CabinetWidth
 - B = 17.5" CabinetWidth
 - C = 21.0" CabinetWidth
 - D = 24.5" CabinetWidth
- Heating Input in 1000's (BTUH)
 - 080 = 80,000 BTUH
- Major Design Change
- Voltage
 - 9 = 115 Volts / 60 Hertz / Natural Gas
 - A = 115 Volts / 50 Hertz / Natural Gas
 - C = 115 Volts / Natural Gas with Communicating System Control
 - F = 115 Volts / Natural Gas with Integrated Electronic Filter
 - D = 115 Volts / Natural Gas with Communicating System Control and Integrated Electronic Filter
- Air Capacity for Cooling

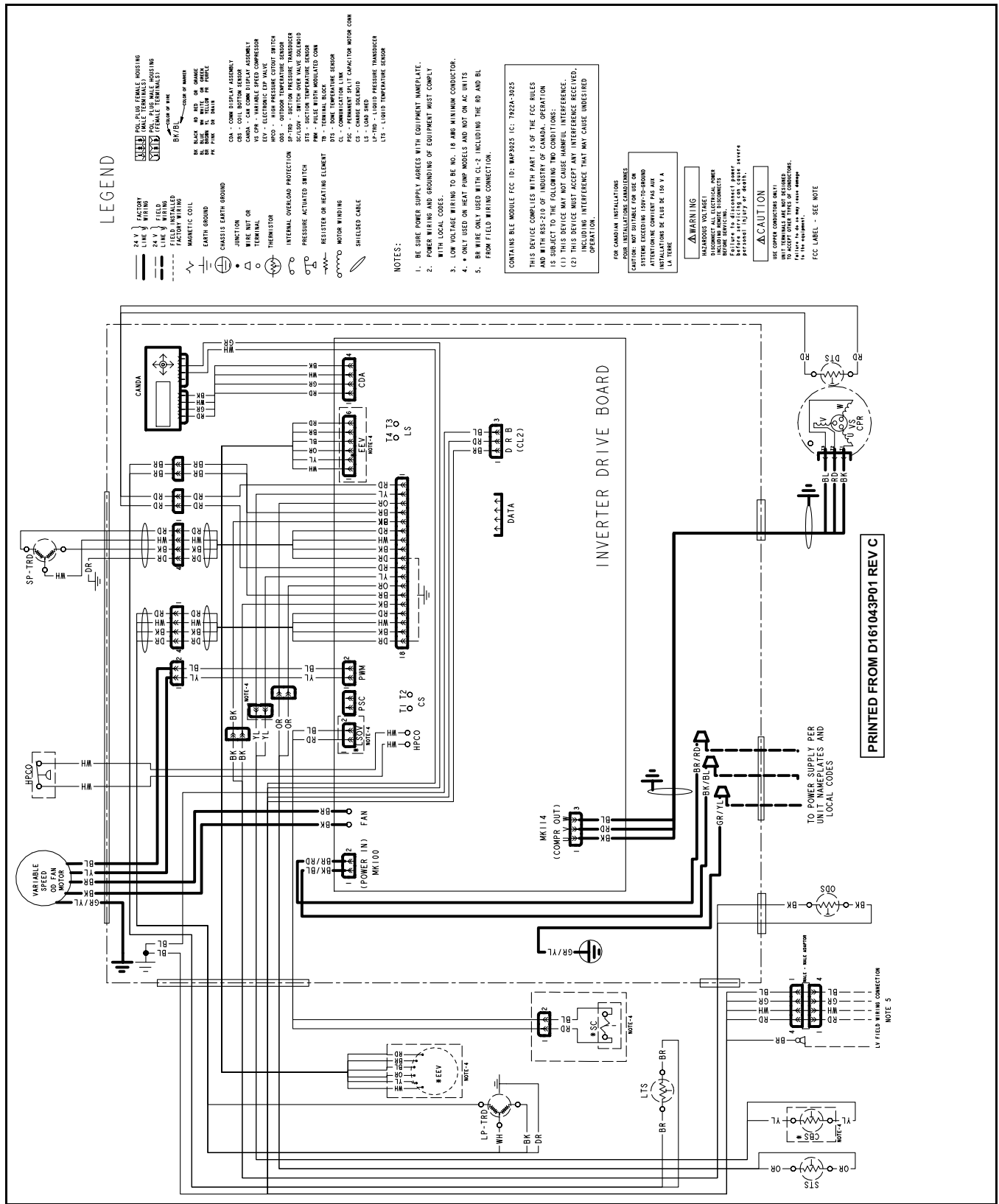
| Standard PSC | Variable Speed | High Efficiency |
|---------------|----------------|-----------------|
| 24 = 2 Tons | V3 = 3 Tons | H3 = 3 Tons |
| 36 = 3 Tons | V4 = 4 Tons | H4 = 4 Tons |
| 42 = 3.5 Tons | V5 = 5 Tons | H5 = 5 Tons |
| 45 = 4 Tons | | |
| 48 = 4 Tons | | |
| 54 = 5 Tons | | |
| 60 = 5 Tons | | |
| 72 = 6 Tons | | |
- Draft Inducer Speeds
 - 1 = Single Speed
 - 2 = Two Speed
 - V = Variable Speed
- Minor Design Change
- Service Digit - Not Orderable

Heat Pump/Cooling Coils

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
 4 T X C B 0 3 6 A C 3 H C A A

- Refrigerant Type
 - 4 = R-410A
- Series
 - T = Premium (Heat Pump)
 - N = Premium (Convertible to HP)
 - C = Standard
- Coil Design
 - X = Direct Expansion Evaporator Coil
- Coil Feature
 - C = Cased A Coil
 - A = Uncased A Coil
 - F = Cased Horizontal Flat Coil
- Coil Width (Cased/Uncased)
 - A = 14.5" / 13.3"
 - B = 17.5" / 16.3"
 - C = 21.0" / 19.8"
 - D = 24.5" / 23.3"
 - H = 10.5"
- Refrigerant Line Coupling
 - 0 = Brazed
- Nominal Capacity in 1000's (BTUH)
- Major Design Change
- Efficiency
 - C = Standard
 - S = Hi Efficiency (derived from 10 SEER products)
- Refrigerant Control
 - 3 = TXV - Non-Bleed
- Coil Circuitry
 - H = Heat Pump
 - C = Cooling
- Airflow Configuration
 - A = Upflow Only
 - U = Upflow/Downflow
 - H = Horizontal Only
 - C = Convertible - Upflow Downflow Left or Right Airflow
- Minor Design Change
- Service Digit - Not Orderable

Wiring





Trane - by Trane Technologies (NYSE: TT), a global innovator - creates comfortable, energy efficient indoor environments for commercial and residential applications. For more information, please visit trane.com or tranetechnologies.com.



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