BRADFORD WHITE®

WATER HEATERS

RESIDENTIAL REPLACEMENT PARTS LIST

UTW ECO-DEFENDER



U(1, 2, 4XR) TW & UTW Models

BRADFORD WHITE
ECO-DEFENDER
SAFETY SYSTEM® WITH SCREENLOK® TECHNOLOGY
ULTRA LOW NOx SERIES

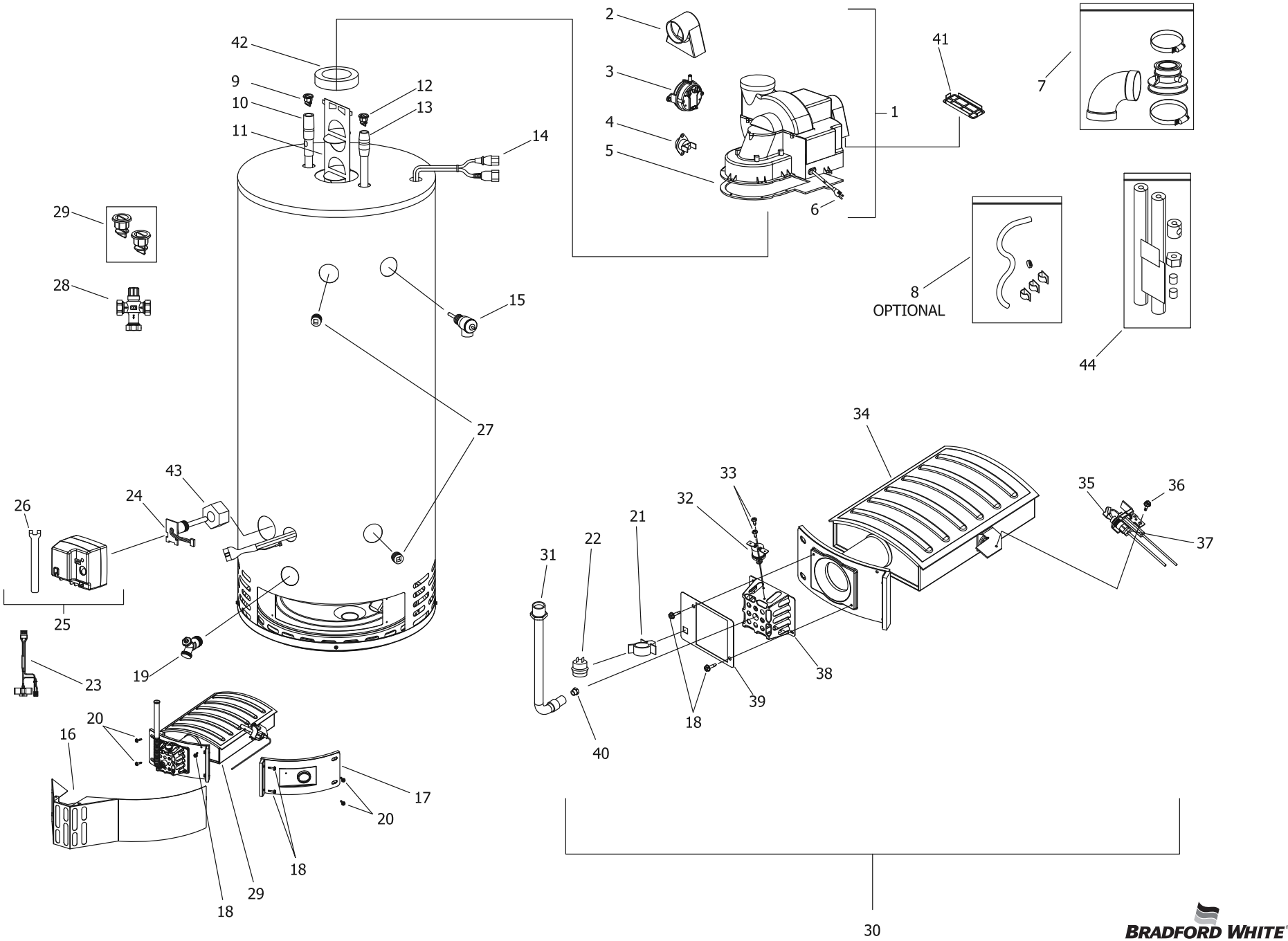
Includes Hydrojet®
Total Performance System

Effective: July, 2011
ECO 7619

NOTE: BOTH MODEL AND SERIAL NUMBERS ARE REQUIRED FOR ORDERING REPLACEMENT PARTS

Dimensions and specifications subject to change without notice.

Parts Book #238-48405-00C


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Item	Description	Model U1TW40S*FRN	Model U1TW50S*FRN	Model U1TW60T*FRN	Model U2TW50T*FRN	Model U2TW65T*FRN
1	Blower Complete	265-45584-00	265-45584-00	265-45584-00	265-45583-00	239-45583-00
	Blower Complete High Altitude	243-45987-00	243-45987-00	243-45987-00	243-45986-00	243-45986-00
2	Air Mixing Inlet	239-45868-00	239-45868-00	239-45868-00	239-45868-00	239-45868-00
3	Pressure Switch	239-45867-01	239-45867-01	239-45867-01	239-45867-02	239-45867-02
	Pressure Switch High Altitude	239-45867-03	239-45867-03	239-45867-03	239-45867-04	239-45867-04
4	Blower Temperature Switch	239-45865-00	239-45865-00	239-45865-00	239-45865-00	239-45865-00
5	Blower Gasket	239-45866-00	239-45866-00	239-45866-00	239-45866-00	239-45866-00
6	Blower Power Cord	239-45990-00	239-45990-00	239-45990-00	239-45990-00	239-45990-00
7	2" Exhaust Adaptor w/Vent Terminal	239-46263-00	239-46263-00	239-46263-00	---	---
	3" Exhaust Adaptor w/Vent Terminal	---	---	---	239-46264-00	239-46264-00
8	Condensate Hose Kit (Optional)	239-45875-00	239-45875-00	239-45875-00	239-45875-00	239-45875-00
9	Heat Trap Insert (Outlet)	239-45167-00	239-45167-00	239-45167-00	239-45167-00	239-45167-00
10	Hot Water Outlet Anode Magnesium▲	224-47776-09	224-47776-10	224-47776-12	224-47776-12	224-47776-08
	Hot Water Outlet Aluminum▲ (Optional)	224-32999-22	224-32999-22	224-32999-21	224-32999-21	224-32999-06
	Hot Water Outlet A420 Aluminum#▲ (Optional)	224-49560-08	224-49560-08	224-49560-08	224-49560-08	224-49560-08
11	Flue Baffle	243-45372-00	243-45372-00	243-46233-00	239-45373-00	239-45373-00
12	Heat Trap Insert (Inlet)	239-45073-00	239-45073-00	239-45073-00	239-45073-00	239-45073-00
13	Cold Water Inlet Dip Tube Polypropylene▲▲	229-39625-20	229-39625-20	229-39625-14	229-45398-01	229-45398-02
	Cold Water Inlet Polysulfone (NC Code)▲▲	229-39628-20	229-39628-20	229-39628-14	229-45092-01	229-45092-03
14	Safety Circuit Wire Harness	239-45617-01	239-45617-01	239-45617-02	239-45617-02	239-45617-02
15	T&P Relief Valve	230-32920-01	230-32920-01	230-32920-01	230-40594-02	230-40594-02
16	Outer Door	239-46209-00	239-46209-00	239-46209-00	239-46209-00	239-46209-00
17	Right Side Inner Door Complete	239-48216-18	239-48216-20	239-48216-20	239-48216-18	239-48216-20
18	Screw #8-18 x 3/4 HWH	239-44195-00	239-44195-00	239-44195-00	239-44195-00	239-44195-00
19	Brass Drain Valve	265-42351-02	265-42351-02	265-42351-02	265-42351-02	265-42351-02
20	Screw-#10-12 x 3/4 HWH	239-44113-00	239-44113-00	239-44113-00	239-44113-00	239-44113-00
21	Flammable Vapor Sensor Clip	239-45648-00	239-45648-00	239-45648-00	239-45648-00	239-45648-00
22	Flammable Vapor Sensor	239-45560-00	239-45560-00	239-45560-00	239-45560-00	239-45560-00
23	Flammable Vapor Sensor Harness	239-45620-00	239-45620-00	239-45620-00	239-45620-00	239-45620-00
24	Thermowell	233-45651-01	233-45651-01	233-45651-01	233-45651-02	233-45651-02
25	Gas Valve Natural Gas	239-48174-01	239-48174-01	239-48174-01	239-48174-01	239-48174-01
26	Gas Valve Service Tool	239-45991-00	239-45991-00	239-45991-00	239-45991-00	239-45991-00
27	3/4" NPT Pipe Plug	---	---	---	239-11638-00	239-11638-00

*Applies to all warranties

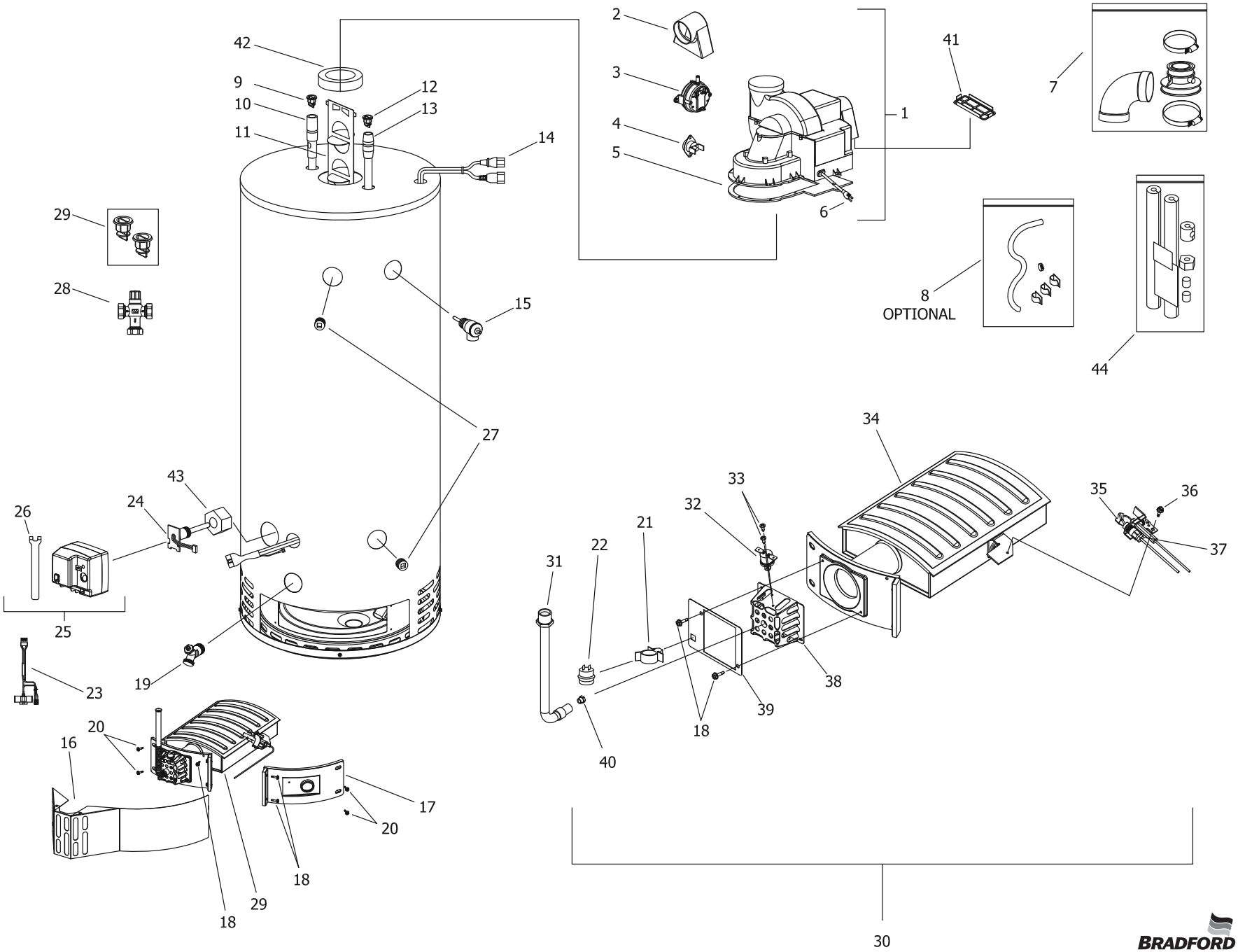
**Inner door gasket kit recommended

***Ordering a complete burner assembly may increase delivery time. Please order the specific component required for the quickest delivery.

A420 Anode may need to be cut to length

▲Order with item 9

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Item	Description	Model U1TW40S*FRN	Model U1TW50S*FRN	Model U1TW60T*FRN	Model U2TW50T*FRN	Model U2TW65T*FRN
28	ASSE Approved Mixing Valve (Optional)	239-43740-01	239-43740-01	239-43740-01	239-43740-01	239-43740-01
29	Kit-Heat Trap Insert	265-45419-00	265-45419-00	265-45419-00	265-45419-00	265-45419-00
30	Burner Assembly ***	243-48329-01	243-48329-02	243-48329-02	243-48329-03	243-48329-04
31	Flexible Gas Feedline	233-46930-01	233-46930-01	233-46930-01	233-46930-01	233-46930-01
32	Thermal Switch	239-43676-03	239-43676-03	239-43676-03	239-43676-03	239-43676-03
33	Screw #6-20 x 3/8 PHCR	239-43967-00	239-43967-00	239-43967-00	239-43967-00	239-43967-00
34	Burner**	228-48383-18	228-48383-18	228-48383-18	228-48383-19	228-48383-21
35	Pilot Assembly**	233-48175-03	233-48175-03	233-48175-03	233-48175-03	233-48175-03
36	Screw #8-18 x 1/2 HWH	239-37261-00	239-37261-00	239-37261-00	239-37261-00	239-37261-00
37	Pilot Orifice**	234-45869-01	234-45869-01	234-45869-01	234-45869-01	234-45869-01
38	Manifold Mount	239-46201-00	239-46201-00	239-46201-00	239-46201-00	239-46201-00
39	FVIR Sensor Plate	239-48341-00	239-48341-00	239-48341-00	239-48341-00	239-48341-00
40	Orifice (Normal Atitude)	234-18194-37	234-18194-37	234-18194-36	234-18194-31	234-18194-31
	Orifice (High Atitude)	234-18194-42	234-18194-42	234-18194-41	234-18194-32	234-18194-32
41	Dilution Air Clip	239-48176-00	239-48176-00	239-48176-00	239-48176-00	239-48176-00
42	Flue Reducer	---	---	---	243-42572-00	243-42572-00
43	Insulation Kit	---	---	---	---	---
44	Thermowell Insulation	---	---	---	---	---

*Applies to all warranties

**Inner door gasket kit recommended

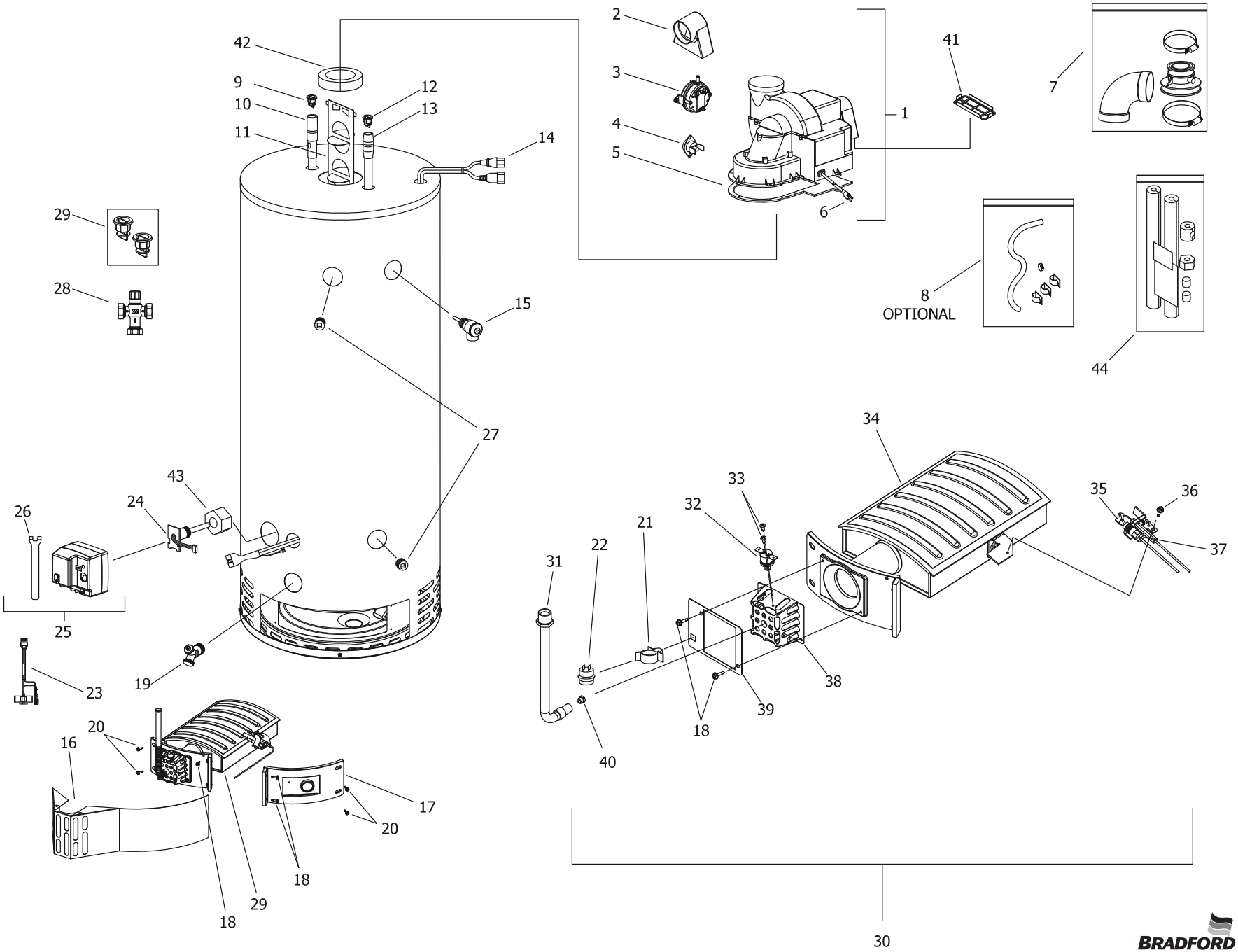
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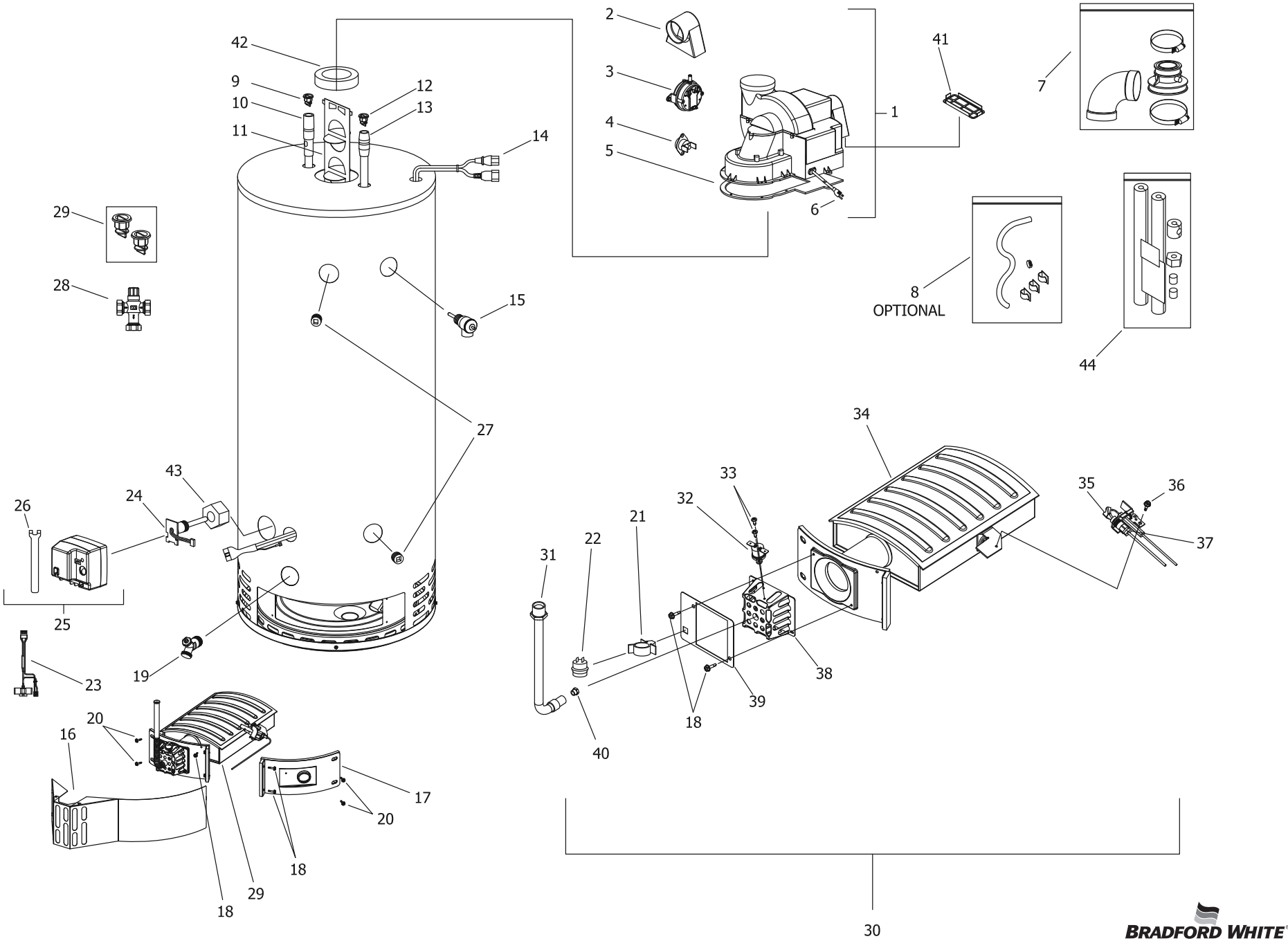
▲▲Order with item 12

BRADFORD WHITE® WATER HEATERS


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Item	Description	Model UTW450S60FR*N	Model UTW465S60FR*N	Model U4TW40T*FRN	Model U4TW50T*FRN	Model U4TW60T*FRN
1	Blower Complete	265-45583-00	239-45583-00	239-48685-00	239-48685-00	239-48685-00
	Blower Complete High Altitude	243-45986-00	243-45986-00	243-48686-00	243-48686-00	243-48686-00
2	Air Mixing Inlet	239-45868-00	239-45868-00	239-45868-00	239-45868-00	239-45868-00
3	Pressure Switch	239-45867-02	239-45867-02	239-47815-03	239-47815-03	239-47815-03
	Pressure Switch High Altitude	239-45867-04	239-45867-04	239-47815-04	239-47815-04	239-47815-04
4	Blower Temperature Switch	239-45865-00	239-45865-00	239-45865-00	239-45865-00	239-45865-00
5	Blower Gasket	239-45866-00	239-45866-00	239-45866-00	239-45866-00	239-45866-00
6	Blower Power Cord	239-45990-00	239-45990-00	239-45990-00	239-45990-00	239-45990-00
7	2" Exhaust Adaptor w/Vent Terminal	---	---	239-46263-00	239-46263-00	239-46263-00
	3" Exhaust Adaptor w/Vent Terminal	239-46264-00	239-46264-00	---	---	---
8	Condensate Hose Kit (Optional)	239-45875-00	239-45875-00	239-45875-00	239-45875-00	239-45875-00
9	Heat Trap Insert (Outlet)	239-45167-00	239-45167-00	239-45167-00	239-45167-00	239-45167-00
10	Hot Water Outlet Anode Magnesium▲	224-47776-12	224-47776-08	224-47776-17	224-47776-17	224-47776-17
	Hot Water Outlet Aluminum▲ (Optional)	224-32999-21	224-32999-06	224-32999-24	224-32999-24	224-32999-24
	Hot Water Outlet A420 Aluminum#▲ (Optional)	224-49560-08	224-49560-08	224-49560-08	224-49560-08	224-49560-08
11	Flue Baffle	239-45373-00	239-45373-00	243-48689-00	243-48689-00	243-48689-00
12	Heat Trap Insert (Inlet)	239-45073-00	239-45073-00	239-45073-00	239-45073-00	239-45073-00
13	Cold Water Inlet Dip Tube Polypropylene▲▲	229-45398-01	229-45398-02	229-45398-09	229-45398-09	229-45398-09
	Cold Water Inlet Polysulfone (NC Code)▲▲	229-45092-01	229-45092-03	229-45092-06	229-45092-06	229-45092-06
14	Safety Circuit Wire Harness	239-45617-02	239-45617-02	239-45617-02	239-45617-02	239-45617-02
15	T&P Relief Valve	230-40594-02	230-40594-03	230-40594-02	230-40594-02	230-40594-02
16	Outer Door	239-46209-00	239-46209-00	239-46209-00	239-46209-00	239-46209-00
17	Right Side Inner Door Complete	239-48216-18	239-48216-20	239-48216-16	239-48216-18	239-48216-20
18	Screw #8-18 x 3/4 HWH	239-44195-00	239-44195-00	239-44195-00	239-44195-00	239-44195-00
19	Brass Drain Valve	265-42351-02	265-42351-02	265-42351-02	265-42351-02	265-42351-02
20	Screw-#10-12 x 3/4 HWH	239-44113-00	239-44113-00	239-44113-00	239-44113-00	239-44113-00
21	Flammable Vapor Sensor Clip	239-45648-00	239-45648-00	239-45648-00	239-45648-00	239-45648-00
22	Flammable Vapor Sensor	239-45560-00	239-45560-00	233-45560-00	239-45560-00	239-45560-00
23	Flammable Vapor Sensor Harness	239-45620-00	239-45620-00	239-45620-00	239-45620-00	239-45620-00
24	Thermowell	233-45651-02	233-45651-02	233-45651-02	233-45651-02	233-45651-02
25	Gas Valve Natural Gas	239-48174-02	239-48174-02	239-48174-01	239-48174-01	239-48174-01
26	Gas Valve Service Tool	239-45991-00	239-45991-00	239-45991-00	239-45991-00	239-45991-00
27	3/4" NPT Pipe Plug	239-11638-00	239-11638-00	---	---	---

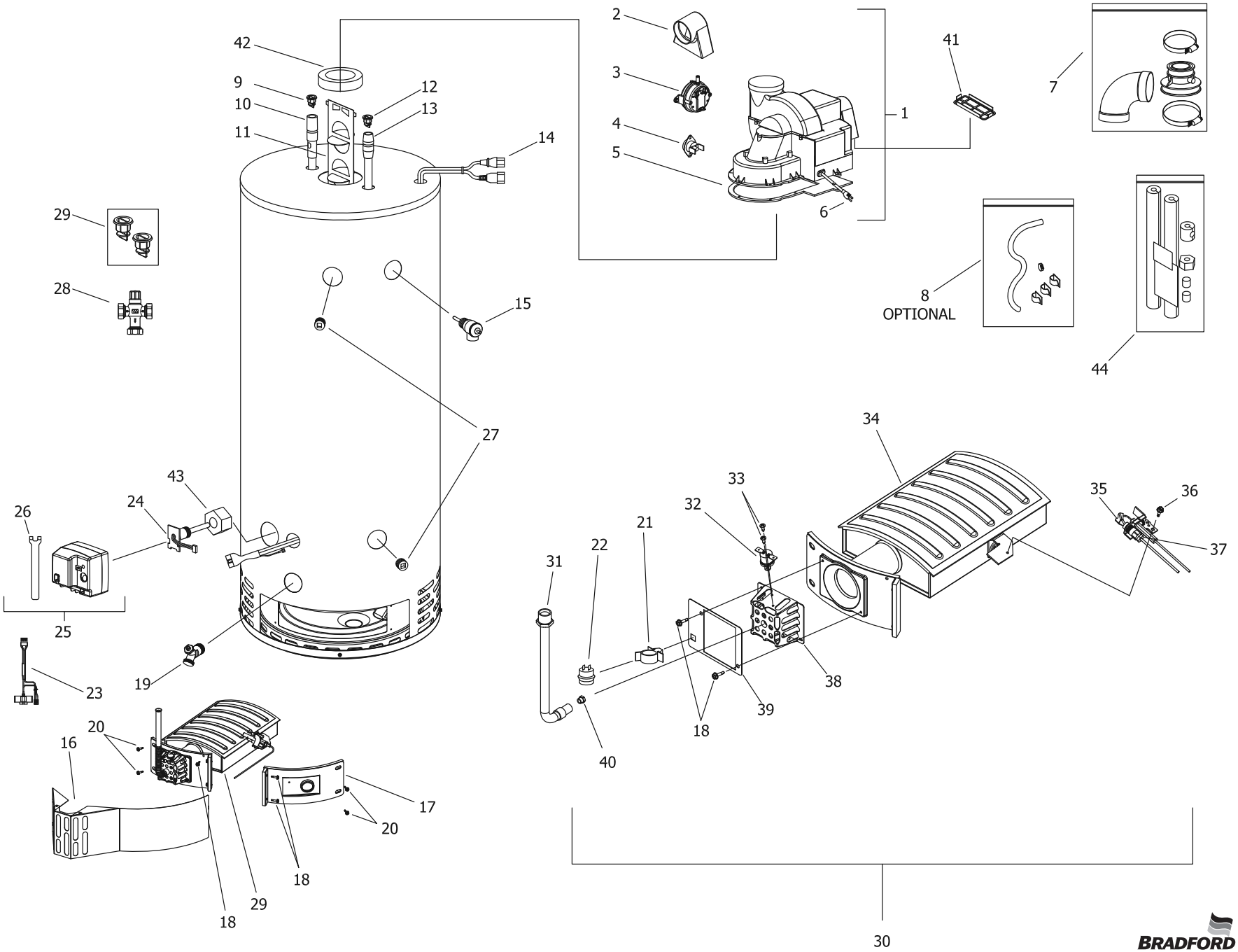
*Applies to all warranties
**Inner door gasket kit recommended
***Ordering a complete burner assembly may increas
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Item	Description	Model UTW450S60FR*N	Model UTW465S60FR*N	Model U4TW40T*FRN	Model U4TW50T*FRN	Model U4TW60T*FRN
28	ASSE Approved Mixing Valve (Optional)	239-43740-01	239-43740-01	239-43740-01	239-43740-01	239-43740-01
29	Kit-Heat Trap Insert	265-45419-00	265-45419-00	265-45419-00	265-45419-00	265-45419-00
30	Burner Assembly ***	243-48329-03	243-48329-04	243-48329-05	243-48329-01	243-48329-02
31	Flexible Gas Feedline	233-46930-01	233-46930-01	233-46930-01	233-46930-01	233-46930-01
32	Thermal Switch	239-43676-03	239-43676-03	239-43676-03	239-43676-03	239-43676-03
33	Screw #6-20 x 3/8 PHCR	239-43967-00	239-43967-00	239-43967-06	239-43967-00	239-43967-00
34	Burner**	228-48383-19	228-48383-21	228-48383-16	228-48383-18	228-48383-20
35	Pilot Assembly**	233-48175-03	233-48175-03	233-48175-03	233-48175-03	233-48175-03
36	Screw #8-18 x 1/2 HWH	239-37261-00	239-37261-00	239-37261-00	239-37261-00	239-37261-00
37	Pilot Orifice**	234-45869-01	234-45869-01	234-45869-01	234-45869-01	234-45869-01
38	Manifold Mount	239-46201-00	239-46201-00	239-46695-00	239-46695-00	239-46695-00
39	FVIR Sensor Plate	239-48341-00	239-48341-00	239-48341-00	239-48341-00	239-48341-00
40	Orifice (Normal Atitude)	234-18194-31	234-18194-31	234-18194-37	234-18194-37	234-18194-37
	Orifice (High Atitude)	234-18194-32	234-18194-32	234-18194-38	234-18194-38	234-18194-38
41	Dilution Air Clip	239-48176-00	239-48176-00	239-48176-00	239-48176-00	239-48176-00
42	Flue Reducer	243-42572-00	243-42572-00	---	222-48174-01	222-48174-01
43	Insulation Kit	---	---	---	239-45991-00	239-45991-00
44	Thermowell Insulation	---	---	---	---	---

*Applies to all warranties
**Inner door gasket kit recommended
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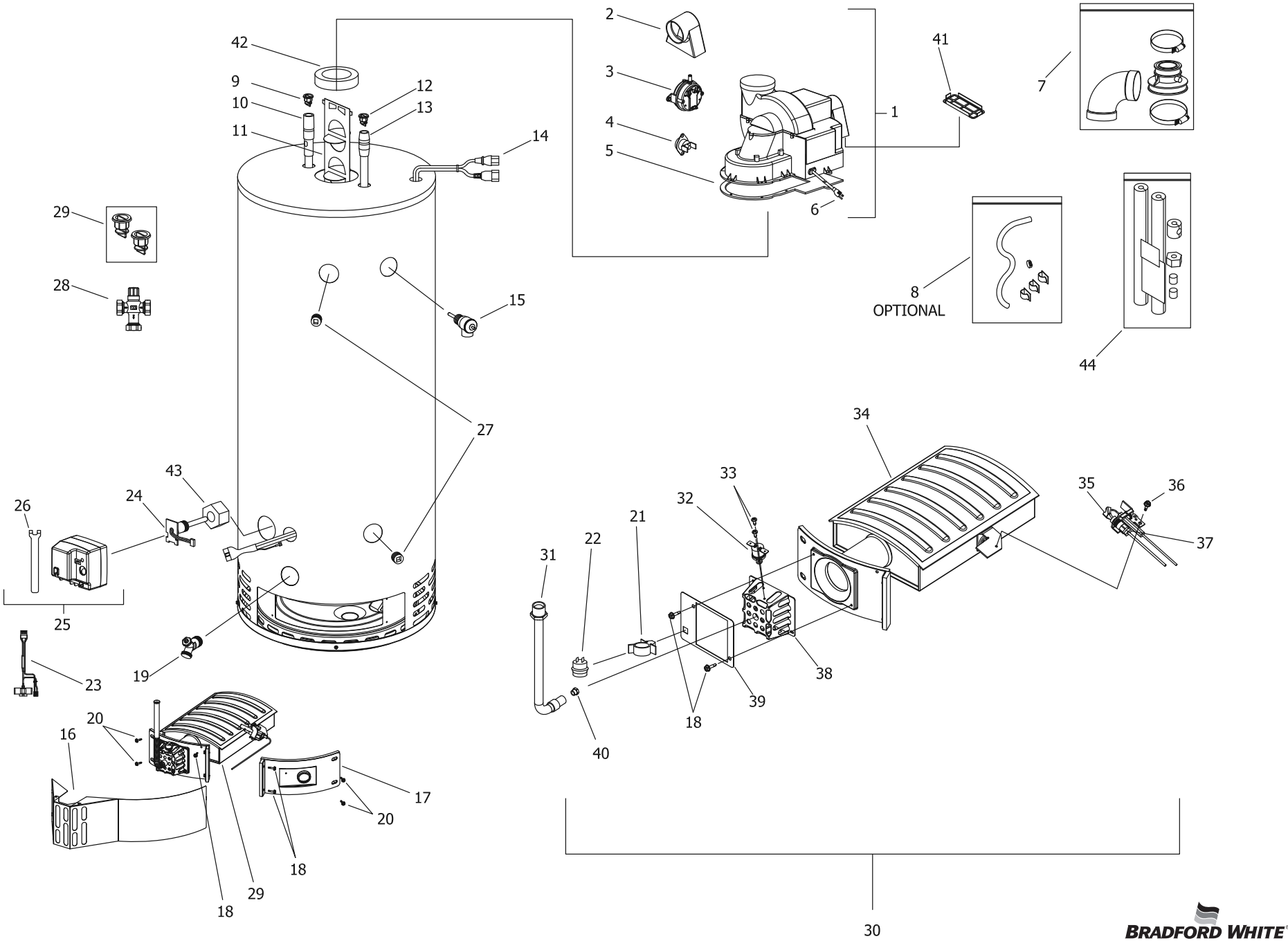
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Item	Description	Model U4XRTW50T*FRN	Model U4XRTW65T*FRN
1	Blower Complete	243-48861-00	243-48861-00
	Blower Complete High Altitude	243-49227-00	243-49227-00
2	Air Mixing Inlet	239-45868-00	239-45868-00
3	Pressure Switch	239-47815-01	239-47815-01
	Pressure Switch High Altitude	239-45867-02	239-45867-02
4	Blower Temperature Switch	239-45865-00	239-45865-00
5	Blower Gasket	239-45866-00	239-45866-00
6	Blower Power Cord	239-45990-00	239-45990-00
7	2" Exhaust Adaptor w/Vent Terminal	---	---
	3" Exhaust Adaptor w/Vent Terminal	239-46264-00	239-46264-00
8	Condensate Hose Kit (Optional)	239-45875-00	239-45875-00
9	Heat Trap Insert (Outlet)	239-45167-00	239-45167-00
10	Hot Water Outlet Anode Magnesium▲	224-47776-12	224-47776-08
	Hot Water Outlet Aluminum▲ (Optional)	224-32999-21	224-32999-06
	Hot Water Outlet A420 Aluminum#▲ (Optional)	224-49560-08	224-49560-08
11	Flue Baffle	239-45373-00	239-45373-00
12	Heat Trap Insert (Inlet)	239-45073-00	239-45073-00
13	Cold Water Inlet Dip Tube Polypropylene▲▲	229-45398-01	229-45398-02
	Cold Water Inlet Polysulfone (NC Code)▲▲	229-45092-01	229-45092-03
14	Safety Circuit Wire Harness	239-45617-02	239-45617-02
15	T&P Relief Valve	230-40594-02	230-40594-02
16	Outer Door	239-46209-00	239-46209-00
17	Right Side Inner Door Complete	239-48216-18	239-48216-20
18	Screw #8-18 x 3/4 HWH	239-44195-00	239-44195-00
19	Brass Drain Valve	265-42351-02	265-42351-02
20	Screw-#10-12 x 3/4 HWH	239-44113-00	239-44113-00
21	Flammable Vapor Sensor Clip	239-45648-00	239-45648-00
22	Flammable Vapor Sensor	239-45560-00	239-45560-00
23	Flammable Vapor Sensor Harness	239-45620-00	239-45620-00
24	Thermowell	233-45651-02	233-45651-02
25	Gas Valve Natural Gas	239-48174-01	239-48174-01
26	Gas Valve Service Tool	239-45991-00	239-45991-00
27	3/4" NPT Pipe Plug	239-11638-00	239-11638-00

*Applies to all warranties
**Inner door gasket kit recommended
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Item	Description	Model U4XRTW50T*FRN	Model U4XRTW65T*FRN
28	ASSE Approved Mixing Valve (Optional)	239-43740-01	239-43740-01
29	Kit-Heat Trap Insert	265-45419-00	265-45419-00
30	Burner Assembly ***	243-48329-03	243-48329-04
31	Flexible Gas Feedline	233-46930-01	233-46930-01
32	Thermal Switch	239-43676-03	239-43676-03
33	Screw #6-20 x 3/8 PHCR	239-43967-00	239-43967-00
34	Burner**	228-48383-19	228-48383-21
35	Pilot Assembly**	233-48175-03	233-48175-03
36	Screw #8-18 x 1/2 HWH	239-37261-00	239-37261-00
37	Pilot Orifice**	234-45869-01	234-45869-01
38	Manifold Mount	239-46201-00	239-46201-00
39	FVIR Sensor Plate	239-48341-00	239-48341-00
40	Orifice (Normal Atitude)	234-18194-31	234-18194-31
	Orifice (High Atitude)	234-18194-33	234-18194-33
41	Dilution Air Clip	239-48176-00	239-48176-00
42	Flue Reducer	239-48802-00	239-48802-00
43	Insulation Kit	239-48949-00	239-48949-00
44	Thermowell Insulation	226-38194-04	226-38194-04

*Applies to all warranties
**Inner door gasket kit recommended
***Ordering a complete burner assembly may increas
A420 Anode may need to be cut to length
▲Order with item 9
▲▲Order with item 12

BRADFORD WHITE® WATER HEATERS

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BRADFORD WHITE®
WATER HEATERS
Ambler, PA

For U.S. and Canada field service,
contact your professional installer or
local Bradford White sales representative.

Sales/**800-523-2931**
*Fax/**215-641-1670***
*Parts Fax/**215-641-2180***

Technical Support/**800-334-3393**
*Fax/**269-795-1089***

Warranty/**800-531-2111**
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*Telefax/**215-641-9750***

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